### STS Consultants, Ltd.

750 Corporate Woods Parkway Vernon Hills, IL 60061 Phone: (847) 279-2500 FAX: (847) 279-2510



### **FACSIMILE TRANSMISSION**

EPA Region 5 Records Ctr.



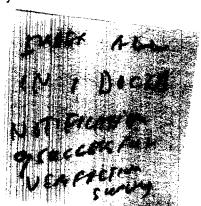
Date:	October 16, 2002	2			
To:	Ms. Verneta Sim	on or Mr. Fred	Micke		-
Compa	iny: United S	tates Environn	nental Protection Agency	(USEPA)	
Fax #:	312-886	-3601			
Pages b	eing transmitted	i, incl. Cover:	8		
CC:	·		Fax No.:		
From:	Steve Kom	der	Phone:	847 279-24	48
Re:	341 East C	hio Street Pro	ject, Chicago, Illinois		
Urgent	For Signature	For Review	Please Comment/Reply	As Requested	☐ Criginal to Follow
Messag	ge:				

Per the USEPA letter of July 7, 2002, STS is enclosing sign-off forms and associated pre-verification (immunoassay) and laboratory verification results for your review for the pesticide investigation at the above referenced site. Included with this fax are sign-off forms for base of excavation sample from grid location H-6 (sample H6-3) and sidewall samples collected at grid designations K-12 and K-14.

Please feel free to contact us if you have any questions regarding the attached analytical information.

Sincerely,

Steve Kornder



**IMPORTANT:** This facsimile is intended only for the of the individual or entity to which it is addressed and may contain information that is privileged, confidential, and exempt from disclosure under applicable law. If the reader of this facsimile is not the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone and return this facsimile to us at the above address via the United States Postal Service. Thank you.

# Chlordane Immunoassay Field Results Summary 341 East Ohio Street

Date:10/16/2002

Sample Location <sup>1</sup>	Sample Date	Time	Sample Type <sup>2</sup>	Chlordane Immunoassay Field Kit <sup>3</sup> (mg/kg)
K-12	09/04/2002	8:15	vertical	0.001
K-14	09/04/2002	8:12	vertical	0.013
H-6(3)	10/03/2002	10:20	base	ND-0.039 <sup>a</sup>
	1 1			1

### Notes:

- 1- Sample location is the center point of the 10 X 10 meter grid for base of excavation samples. The location designation for vertical samples indicates the actual sample location.
- 2 Base Composite sample from the base of the excavation (five grab samples from 100 m2 area).
  Sidewall Vertical composite of five grab samples from excavation side wall.
- 3 The chlordane immunoassay kit does not differentiate between chlordane and other cyclodienes such as heptachlor, refer to method documentation for information on the relative sensitivities.
- a Three individual immunoassay tests were run on geoprobe samples collected prior excavation to determine vertical extent of the contaminants. Composite from same strata submitted for lab analysis following excavation.

P.03/08

### STS ACQUISITIONS CO. dba STS CONS., LTD.

### Client Sample ID: H6-3

### GC Semivolatiles

Lot-Sample #:	F2J040269-001	Work Order #: E91	FJW1AA <b>Matri</b> x: SC	OLID
---------------	---------------	-------------------	---------------------------	------

 Date
 Sampled...:
 10/03/02
 10:20
 Date
 Received...:
 10/04/02

 Prep
 Date...:
 10/07/02
 Analysis
 Date...:
 10/10/02

 Prep
 Batch #...:
 2280295
 Analysis
 Time...:
 22:05

Dilution Factor: 1

\* Moisture....: 19 Method.....: \$W846 8081A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aldrin	ND ND	2.1	ug/kg
alpha-BHC	ND	2.1	ug/kg
gamma-BHC (Lindane)	ND	2.1	ug/kg
Chlordane (technical)	NID	21	ug/kg
4,4'-DDT	ND	2.1	ug/kg
Dieldrin	ND	2.1	ug/kg
<b>Heptachlor</b>	7.5	2.1	ug/kg
Heptachlor epoxide	ИD	8.3	ug/kg
	PERCENT	RECOVERY	
SURROGATE	RECOVERY	LIMITS	
Decachlorobiphenyl	121	(52 - 130	1)
Tetrachloro-m-xylene	96	(60 - 119	))

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

### STS ACQUISITIONS CO. dba STS CONS., LTD.

### Client Sample ID: K-12

### GC Semivolatiles

Lot-Sample #:	F21050108-004	Work Order #	E7PPXIAA	Matrix	SOLID

 Date Sampled...:
 09/04/02 08:15 Date Received...:
 09/05/02

 Prep Date.....:
 09/06/02
 Analysis Date...:
 09/10/02

 Prep Batch #...:
 2249219
 Analysis Time...:
 06:13

Dilution Factor: 10

\* Moisture....: 13 Method.....: SW846 8081A

	REPORTING			
PARAMETER	RESULT	LIMIT	UNITS	
Aldrin	NTD	20	ug/kg	
alpha-BHC	ND	20	ug/kg	
gamma-BHC (Lindane)	ND	20	ug/kg	
Chlordane (technical)	ND	200	ug/kg	
4,4'-DDT	MD	20	ug/kg	
Dieldrin	ND	20	ug/kg	
Heptachlor	ND	20	ug/kg	
Heptachlor epoxide	ND	39	ug/kg	

	PERCENT	RECOVERY
SURROGATE	RECOVERY	LIMITS
Decachlorobiphenyl	0.0 DIL,NC	(50 - 151)
Tetrachloro-m-xylene	0.0 DIL,NC	(64 - 131)

### NOTE(S):

Results and reporting limits have been adjusted for dry weight.

DIL. The concentration is estimated or not reported due to dilution or the presence of interfering analyses.

NC The recovery and/or RPD were not calculated.

### STS ACQUISITIONS CO. dba STS CONS., LTD.

### Client Sample ID: K-14

### GC Semivolatiles

Lot-Sample #	F21050108-005	Work Order #:	E7PP01AA	Matrix	SOLID
--------------	---------------	---------------	----------	--------	-------

Date Sampled...: 09/04/02 08:20 Date Received..: 09/05/02 Prep Date....: 09/06/02 Analysis Date..: 09/10/02 Prep Batch #...: 2249219 Analysis Time..: 06:42

Dilution Factor: 10

\* Moisture....: 11 Method.....: SW846 8081A

		REPORTING	
PARAMETER	RESULT	LIMIT	UNITS
Aldrin	ND	19	ug/kg
alpha-BHC	ND	19	ug/kg
gamma-BHC (Lindane)	ND	19	ug/kg
Chlordane (technical)	ND	190	ug/kg
,, 4'-DDT	ND	19	ug/kg
Dieldrin	ND	19	ug/kg
Heptachlor	ND	19	ug/kg
Heptachlor epoxide	ND	38	ug/kg

	PERCENT	RECOVERY
SURROGATE	RECOVERY	LIMITS
Decachlorobiphenyl	0.0 DIL,NC	(50 - 151)
Tetrachloro-m-xylene	0.0 DIL,NC	(64 - 131)

#### NOTE(S):

Results and reporting limits have been adjusted for dry weight.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

NC. The recovery and/or RPD were not calculated.

# FORM FOR NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY PESTICIDE

Project Name/Number: 341 East Ohio Street, Chicago, Illinois
Area Identification: H-6 (Sample H6-3)
Date of Verification Survey: 10/3/02
Time of Verification Survey: 10: 20 arr/pm
The above-described excavation was sampled for pesticides at the time and date indicated above. The analytical results indicated that all pesticide-impacted soils have been removed as required by the Site Removal Action Criteria.
Documents pertaining to the pre-verification immunoassay and laboratory results for pesticides are attached for review and approval by the USEPA.
Signed:
Date: 10/15/02
Print Name: Steve C. Kornder .
Print Title: Senior Project Geochemist .
STS Consultants, Ltd.
The attached Verification Survey documents were reviewed by USEPA, Region 5 on 10/10/12 The results of this survey indicate that the pesticide verification criteria
as discussed in the Amended Removal Action Work Plan (STS, March 2002) and cleanup levels contained in 35 IAC 742 Appendix B, Table A for ingestion and inhalation, have been met.
Authorization is hereby, granted to commence backfill and restoration work at this excavation.
Signed: Winth Sim
Date: 10/10/cz
Print Name: VERNEHA SIMIN
Print Title: On-Scene Coordinate
For USEPA Region 5

For USEPA Region 5

### FORM FOR NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY PESTICIDE

Project Name/Number: 341 East Onio Street, Unicago, Illinois
Area Identification: K-14 (Vertical compacts)
Date of Verification Survey: 9/4/02
Time of Verification Survey:    Sala   Sala
The above-described excavation was sampled for posticides at the time and date indicated above. The analytical results indicated that all posticide-impacted soils have been removed as required by the Site Removal Action Criteria.
Documents pertaining to the pre-verification immunoassay and laboratory results for pesticides are attached for review and approval by the USEPA.
Signed:
Date:
Print Name: Steve C. Kornder
Print Title: Senior Project Geochemist
STS Consultants, Ltd.
The attached Verification Survey documents were reviewed by USEPA, Region 5 on 10 10 10 10 10 10 10 10 10 10 10 10 10
Authorization is hereby granted to commence backfill and restoration work at this excavation.
Signed: Yourka-Sim
Date: 10/16/02
Print Name: Verneta Simin
Print Title: On- Scene Cookedinator

# FORM FOR NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY PESTICIDE

Project Name/Number: 341 East Ohio Street, Chicago, Illinois .
Area Identification: K-12 (vertical composite)
Date of Verification Survey: 9/4/07
Time of Verification Survey:  The above-described excavation was sampled for pesticides at the time and date indicated above. The analytical results indicated that all pesticide-impacted soils have been removed as required by the Site Removal Action Criteria.
Documents pertaining to the pre-verification immunoassay and laboratory results for pesticides are attached for review and approval by the USEPA.
Signed:
Date: 10/15/07
Print Name: Steve C. Kornder
Print Title: Senior Project Geochemist
STS Consultants, Ltd.
The attached Verification Survey documents were reviewed by USEPA, Region 5 or 10 10 10 2. The results of this survey indicate that the pesticide verification criteria as discussed in the Amended Removal Action Work Plan (STS, March 2002) and cleanup levels contained in 35 IAC 742 Appendix B, Table A for ingestion and inhalation, have been met.
Authorization is hereby granted to commence backfill and restoration work at this excavation.
Signed: Verneta Sinn
Date: 10/14/02
Print Name: Vennet > Simon
Print Title: On-Scene Coordinator
For USEPA Region 5



PHONE:

FAX:

(312) 353-2318 (312) 353-9176



### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION 5 EMERGENCY RESPONSE BRANCH

MERGENCY RESPONSE BRANCH
Mail Code: SE-5J

### FACSIMILE COVER PAGE

1 /
DATE: 10/16/62
To Steve kunnden
ORGANIZATION STS Consultants
FAX NUMBER: 847 279-2510 .
FROM: VERNETT Simon.
SUBJECT: 1+6, K-14, K-12
NUMBER OF PAGES TO FOLLOW (INCLUDING COVER SHEET): 4 MESSAGE:

#### TRANSMIT CONFIRMATION REPORT

847 279 2535 USEPA REGION 5 DCT 16'02 11:01 01'56 STD

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### STS Consultants, Ltd.

750 Corporate Woods Parkway Vernon Hills, IL 60081 Phone: (847) 279-2500 Fax: (847) 279-2510



### **FACSIMILE TRANSMISSION**

To:	Company Name:	Fax No.:
LANKY JENSON	USEPA	3/2-353-9
From: John Anda		FAX 312-755-6
Trom: ~//////2/ //w/////		<del>none</del> :
		<del>rono</del> :
Rei SMO	341 E ONEO  se Comment/Reply   As Request	ed ØFor Signature
Re: />/// Pleas	341 E. ONTO	ed ØFor Signature
Re: //// Pleas	341 E. ONEO  se Comment/Reply   As Request	
Re: SMO  For Review Please  Messege:  F - Co - H. 5	341 E. ONTO  se Comment/Reply   As Request  20-245 Evelus.	OU ZONE
Re: SMO Pleas    For Review   Pleas    Messege:   For Hist   For H	341 E. ONEO  se Comment/Reply   As Request	OU ZONE
Rei SMO  For Review Please  Messegei  F - C - H. 5 ,  - A - C. 5 , 2	341 E. ONTO  se Comment/Reply   As Request  20-245 Evelus.	PHASEIT FIN

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### United States Environmental Protection Agency



Region V 77 West Jackson Blvd. Chicago, Illinois 60604

### Superfund Division Emergency Response Branch

# FACSIMILE COVER SHEET FAX #: 312 353-9176

TO: Dumas byerrier	DATE: 10/1/02
COMPANY: 575	FAX#: 312-755-6022
From: Larry Jensen	MAILCODE:
PHONE: 3/2-881-5026	1
PAGES (including cover sheet):	6
MESSAGE:	

### Nutrani Gamma Spec Report- 341 East Ohio Street Site

Exclusion Zone Confirmatory Samples for September 30, 2002

Sample	Sample	Sample	Description	Weight	U-236	U-238	Th-232	Th-232	Ra-226	Ra-226	Total Radium	Total Radium
ID	Date	Group			Activity	Uncertainty	Activity	Uncertainty	Activity	Uncertainty	Activity	Uncertainty
904	9/30/02	EPA	S1532 G-H.5/20-22.5 EPA#1	34.9	0.71	2.04	-0.87	0.59	2.19	0.83	1.32	1.01833198
905	9/30/02	EPA	S1533 G-H.5/20-22.5 EPA/2	34.8	4.39	1.38	0.55	0.43	0.93	0.56	1.48	0.708045324
906	9/30/02		S1534 G-H.5/20-22.5 EPA#3	33.8	-1.96	1.62	0.54	0.48	1.49	0.86	2.03	0.816088231
907			S1535 G-H.5/20-22.5 EPAM	35.4	0.59	1.68	0.21	0.49	1.14	0.67	1.36	0.83006023
908	9/30/02	EPA	S1536 G-H.5/20-22.5 EPA#5	34.6	-0.28	2.08	0.17	0.6	1.74	0.85	1.91	1.040432602
		Barr	the second resident and the second resident resi		agentur i redette attrace gry i i i inter tat gettigende frances f		de maria		L	AND AND A PROPERTY OF THE PARTY.	Kanaminateri ese - manement	Salara Andrews (Marie Const. Const.

Average Total Radium (Th-232+Ra-226) Concentration for :

G-H.5/20-22.5 =

1.62

pCi/g

iam ple	Sample	Sam ple	Description	Weight	U-238	D-236	Th-232	Th-232	Re-226	Ro-226	Total Radium	Total Radium
ID	Date	Group			Activity	Uncertainty	Activity	Uncertainty	Activity	Uncertainty	Activity	Uncertainty
900	9/30/02	EPA	S1537 G-H.5/22.5-24.5 EPA#1	34.1	0.55	2.15	0.57	0.63	1.66	0.87	2.23	1.07415082
910	9/30/02	EPA	81538 G-H.5/22.5-24.5 EPA#2	33.9	3.13	2.3	-0.2	0.65	1.96	0,91	1.76	1.11830228
911	9/30/02	EPA	S1539 G-H.5/22.5-24.5 EPA#3	33.4	-0.84	2.14	0.38	0.64	1.84	0.87	2.22	1.08004629
912	8/30/02	EPA	S1540 G-H.5/22.5-24.5 EPA#4	26.9	3.59	2.39	-1	0.87	2.67	0.97	1.67	1.1788977
913	B/30/02	EPA	S1541 G-H.5/22.5-24.5 EPA#5	33,4	3,66	2.1	0.32	0.50	0.98	0.82	1.3	1.01019

Phase II Sand Samples 9/30/02

<b>Sampte</b> ID	Sample Date	Sample Group	Description	Weight	U-238 Activity	U-238 Uncertainty	Th-232 Activity		Re-226 Activity	Re-226 Uncertainty	Total Radium Activity	Total Redium Uncertainty
		EPA										
914	9/30/02	Send	61542 A-C.5/21-22	32.2	-3.38	2.53	0.15	0.77	1.54	1.03	1.69	1.296001555
		EPA	The state of the s									
915	9/30/02	Sand	S1543 A-B.5/25-27	35.1	~1.58	2.17	0.95	0.85	-0.07	0.85	0.88	1.070046726
		EPA	and the second s									THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER, OF
916	9/30/02	Sand	S1544 B.5-D/25-27	31.6	-0.59	2.18	0.22	0.66	0.89	0,88	§ 1.11	1.1
		EPA	angang nggganggana penantu manihi nanangantu nahul ten, menu salit ten ana Pili							**************************************		
917	9/30/02	Send	61545  -J/21-24.5	33.8	-5.21	2.62	0.73	0.79	1.23	1.08	1.96	1.338095662

### FORM 223-1

NOTIFICATION OF SUCCESSFUL V	ERIFICATION SURVEY  ADEA IN PITAS
Area Identification: $I - I = 2I - 2g$	15 FINAL SAND
Date of Verification Survey: 9-30-02	
Time of Verification Survey	am/pm
The above-described excavation was surveyed at the survey indicated that all soils have been removed a Criteria.	
Documents pertaining to this survey are attached for	review and approval by the U.S. EPA.
Signed:	
fall let	Date 10-1-0
John Andreson	(Print Name)
RACOLDS MANAGER	(Print Title)
Solutions through Sci	S Consultants, Ltd. lence & Engineering
The attached Verification Survey documents were  10 1 0  . The results o criteria as contained in the UAO, have been met.	f this survey indicate that the verificatio
Authorization is hereby granted to commence backfill	and restoration work at this excavation
Signed: Sur Jerneta Si	men Date 10/1/02
Larry Jensen	(Print Name)
Schior Health Physicist	(Print Title)
For U.S. EPA Region V	•

### FORM 223-1 NOTIFICATION OF SUCCESSFUL VERIFICATION SURVE

NOTIFICATION OF SUCCESSFUL VERIFICATION	
Area Identification: A-D, 25-27 Finn	SANO
Date of Verification Survey: 9-30-02	
Time of Verification Survey	am/pm
The above-described excavation was surveyed at the time and da survey indicated that all soils have been removed as required by Criteria.	
Documents pertaining to this survey are attached for review and app	proval by the U.S. EPA.
Signed:	
fall lul-	Date 11-0.
John Bridanson	(Print Name)
PREODOS MANAGER	(Print Title)
C7	
BTS Consultants, Ltd. Solutions through Science & Engineering	<u>:</u>
The attached Verification Survey documents were reviewed by 10/1/62. The results of this survey incriteria as contained in the UAO, have been met.	
Authorization is hereby granted to commence backfill and restoration	n work at this excavation
Signed: Sarry lensen for Vernety Sima	Date 10/1/02
Larry Jensen	(Print Name)
Senior Health Physicist	(Print Title)
Earli C EGA Gagion V	

For U.S. EPA Region V

# FORM 223-1 NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY ARAN III PHASE II.

A A TO THE REPORT OF THE PARTY	NA THE LINES TO
Area Identification: A-C-5, 21-22 Fin	M SAND
Date of Verification Survey: 9-30-02	
Time of Verification Survey 1:00 Pm	am/pm
The above-described excavation was surveyed at the time an survey indicated that all soils have been removed as required Criteria.	
Documents pertaining to this survey are attached for review and	approval by the U.S. EPA.
Signed:	
file literate	Date 10:1-0
Tolla Andrasor	(Print Name)
RECORDS Monnigen	(Print Title)
STS Consultants, Solutions through Science & Engine	
The attached Verification Survey documents were reviewed  10 1 02 . The results of this surve criteria as contained in the UAO, have been met.  Authorization is hereby granted to commence backfill and resto	ey indicate that the verification
Signed:	And Holl at the Ground
Yavry Jensen for Vernety Summ	Date <u>/6/1/67</u>
harry Tensen	(Print Name)
Senior Health Physicist	(Print Title)
For U.S. EPA Region V	•

PHASE I EXCUSION ZONS

### FORM 223-1

### NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

Area Identification: 4-H.	5,20-2	24.5	EXCLUSION ZONE
Date of Verification Survey:			
Time of Verification Survey	1:000		am/pm
The above-described excavation survey indicated that all soils ha Criteria.	·		
Documents pertaining to this surv	rey are attached for re	view and appro	val by the U.S. EPA.
Signed:	_		
July lest			Date 10-1-02
JoHN Bridge	RSON		(Print Name)
Ricords	monnofus	<u> </u>	(Print Title)
ES	STS C Solutions through Scien	onsultants, Ltd. ce & Engineering	
The attached Verification Surve	The results of t		
Authorization is hereby granted to	o commence backfill a	nd restoration v	vork at this excavation
Signed: Sarry Jensen Senior Health	Sor Vernatu Physicist	Simon	Date 10/1/02  (Print Name)  (Print Title)
For U.S. EPA Region V	1	<b>b.</b>	

### STS Consultants, Ltd.

750 Corporate Woods Parkway Vernon Hills, IL 60061 Phone: (647) 279-2500 Fex: (847) 279-2510

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### **FACSIMILE TRANSMISSION**

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From: John A	Aknson 5.8	TS FAX	312-755-602
Re: /e///			
☐ For Review ☐ F	_		☑ For Signature
Message:	INKA IV PH	ASE IT F.	ints
6-I, 20-Z	4.5		
0-6, 22-2			
G.5-6, 21-2			
1-1 77-7		se I fuelu	SION ZONK
B.5-D 23.	5-25	•	

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والمعارض والمنافرة والمناف

ARKA IT PHUSK I

# FORM 223-1 NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

Area Identification: $B.5-D$ , $23.5-2$	5 Exelusion 20
Date of Verification Survey: 10-1-02	
Time of Verification Survey / 100 Pm	am/pm
The above-described excavation was surveyed at the survey indicated that all soils have been removed as r Criteria.	
Documents pertaining to this survey are attached for rev	iew and approval by the U.S. EPA.
Signed:	
fall hol-	Date 10-1-02
John Andreson	(Print Name)
RACORDS MANAGER	(Print Title)
STS Co Solutions through Science	onsultants, Ltd. e & Engineering
The attached Verification Survey documents were re	viewed by U.S. EPA, Region V on his survey indicate that the verification
Authorization is hereby granted to commence backfill ar	nd restoration work at this excavation
Signed	
Nemeto Sino	Date 10/2/c2
Vernetz Simon	(Print Name)
Verneta Simon On-Scene Coordinator	(Print Title)
For U.S. EPA Region V	

FORM 223-1	ARRA I +
NOTIFICATION OF SUCCESSFUL VERIFIC	AAN TT VHERK II
Area Identification: 6-7, 20-24.5	FINAL SAND
Date of Verification Survey: 10-1-02	
Time of Verification Survey	am/pm
The above-described excavation was surveyed at the time survey indicated that all soils have been removed as required.	
Documents pertaining to this survey are attached for review	and approval by the U.S. EPA.
Signed:	
John Mel-	Date 10-1-02
John Andreson	(Print Name)
RECORDS MANAGER	(Print Title)
STS Consultr Solutions through Science & En	
The attached Verification Survey documents were review $\frac{10/2/(2)}{2}$ . The results of this su criteria as contained in the UAO, have been met.	red by U.S. EPA, Region V o urvey indicate that the verificatio
Authorization is hereby granted to commence backfill and re	storation work at this excavatior
Signed:	
Jemeta Sinor	Date 10/2/62
Veeneta Simon	(Print Name)
On- Scene Coordinater	(Print Title)
For U.S. EPA Region V	

# FORM 223-1 NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

Area Identification: D-6, 22-24.5	FINAL SAND
Date of Verification Survey: 10-1-02	
Time of Verification Survey	am/pm
The above-described excavation was surveyed at the survey indicated that all soils have been removed as Criteria.	
Documents pertaining to this survey are attached for re	eview and approval by the U.S. EPA.
Signed:	
fall hel-	Date 10-1-02
Tothe Andresser	(Print Name)
RECORDS MANNEYER	
STS Solutions through Scie	Consultants, Ltd. nce & Engineering
The attached Verification Survey documents were to the criteria as contained in the UAO, have been met.	
Authorization is hereby granted to commence backfill	and restoration work at this excavation
Signed:	
Jeniha Simor	Date (0/2/0)
Verneta Simon	(Print Name)
On-Scene Coordinator	(Print Title)
	(* 11174 (1113)

## FORM 223-1 NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY Area Identification: Date of Verification Survey: Time of Verification Survey The above-described excavation was surveyed at the time and date indicated above. The survey indicated that all soils have been removed as required by the Site Removal Action Criteria. Documents pertaining to this survey are attached for review and approval by the U.S. EPA. Signed: STS Consultants, Ltd. Solutions through Science & Engineering The attached Verification Survey documents were reviewed by U.S. EPA, Region V o . The results of this survey indicate that the verificatio criteria as contained in the UAO, have been met. Authorization is hereby granted to commence backfill and restoration work at this excavation Signeda (Print Name) On-Scene Coordinator (Print Title)

For U.S. EPA Region V

## FORM 223-1 NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

NOTIFICATION OF GOODESIA	ARRA IN PHOSE IL
Area Identification: $\frac{C.5-L}{21-2}$	22 FINAL SAND
Date of Verification Survey: 10-1-0	
Time of Verification Survey	am/pm
The above-described excavation was surveyed a survey indicated that all soils have been remove Criteria.	
Documents pertaining to this survey are attached	for review and approval by the U.S. EPA.
Signed:	
fall lad	Date 10-1-02
Tothe Budanson	(Print Name)
PACONDS MONNIGA	(Print Title)
GO	STS Consultants, Ltd. h Science & Engineering
The attached Verification Survey documents we will be criterial as contained in the UAO, have been met.  Authorization is hereby granted to commence back	s of this survey indicate that the verification
Signed	
Veineta Simon	Date 10/2/62
Verneta Simon	(Print Name)
On-Scene Coundinator	(Print Title)

### Nutrani Gamma Spec Report- 341 East Ohio Street Site

Exclusion Zone Confirmatory Samples for October 1, 2002

ample	Sample	Sample	Description	Weight	U-238	U-238	Th-232	Th-232	Ra-226	Ro-226	Total Radium	Total Radium
ID	Date	Group			Activity	Uncertainty	Activity	Uncertainty	Activity	Uncertainty	Activity	Uncertainty
920	10/1/02	EPA	S1546 B.5-D/23.5-25 EPA#1	31.9	0.08	1.59	0.07	0.47	0.12	0.63	0.19	0.78600254
B21	10/1/02	EPA	61547 B.5-D/23.5-25 EPA#2	33.6	3.15	1.68	-0.15	0.46	1.43	0.84	1.28	0.7881824
922	10/1/02	EPA	61548 B.6-D/23.5-25 EPA#3	33.9	-0.05	1.51	1.05	0.44	-0.34	0.57	0.71	D.72005944
923	10/1/02		81549 B.5-D/23.5-25 EPAN4	323	3.25	1.67	0.3	0.47	1.68	0.87	1.98	0.81841309
924	10/1/02	EPA	S1560 B.5-D/23.5-25 EPA#5	32.6	-0.09	1.84	0.4	0.55	1.48	0.74	1.86	0.92200887
		**********	describers - service and and another a service and as a service and a service and a service and a service and a				J	b = = - =		Her her management of The	for an experience personal and a remaining and a few of the contractions and the contractions are a few of the contractions and the contractions are a few of the contractions are a few of the contractions and the contractions are a few of the con	
Averer	istoT ar	Radium	(Th-232+Ra-226) Con	centrati	on for :		B 5-D	23.5-25	=	1.20	pCl/a	

Phase II Sand Samples 10/1/02

Sample	Sample	Sample	Description	Weight	U-238	U-238	Th-232	Th-232	Re-226	Ra-220	Total Radium	Total Redium
ID	Date	Group			Activity	Uncertainty	Activity	Uncertainty	Activity	Uncertainty	Activity	Uncertainty
		EPA					1					1
925	10/1/02	Sand	61551 A-D/22-23	32.6	-0.76	2.34	-1.77	0.66	3.2	1.02	1.43	1.214907404
		EPA										
926	10/1/02	Sand	61552 A-D/23-25	32.8	6.63	2.8	-0.01	0.78	-0. <del>5</del> 5	1.07	-0.56	1.324122351
		EPA										
927	10/1/02		51553 C.5-G/21-22	32.9	-1.26	2.2	0.04	0.64	2.28	0.92	2.3	1.12071405
		EPA		_								
928	10/1/02	Send	S1554 D-G/22-23	35	4.22	3.15	1.16	0.9	-0.53	1.12	0.63	1.438802004
		EPA							}			
929	10/1/02	<del></del>	81555 D-G/23-24.5	33.7	-7.39	1.84	1.35	0.59	-0.68	0.77	0.69	0.970051545
		EPA										
930	10/1/02		S1556 G-1/20-21	33.8	-5.57	1.99	-1.08	0.63	2.85	0.69	1.79	1.09041275
		EPA										
931	10/1/02		S1557 G-H/21-24.5	32.3	0.19	2.31	-0.38	0.69	1.25	0.03	0.B7	1.158016544
		EPA										
932	10/1/02	Sand	S1558 H-I/21-24.5	33.9	-1.98	2.16	1.5	0.64	0.43	0,64	1.83	1.066030303





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(312) 353-9176

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To: John Anderson
ORGANIZATION STS
FAX NUMBER: (312) 755-6022
FROM: VERNETA SIMON .
SUBJECT: 341 E Ohio Verification Forms
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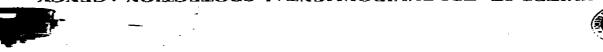
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### STS Consultants, Ltd.

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# FORM 223-1 NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

Area Identification. J-N 21-37	(AREA T Final SAND)
Date of Verification Survey: 9-35-0	
Time of Verification Survey 9.00	
The above-described excavation was surveyed a survey indicated that all soils have been removed Criteria.	t the time and date indicated above. The das required by the Site Removal Action
Documents pertaining to this survey are attached f	or review and approval by the U.S. EPA.
Signed:  Oursessis J. Sugarerew	Date 9-25-02-
DUMARSAIS J. GUERRICK	(Print Name)
Dile Condinator	(Print Title)
	STS Consultants, Ltd. Science & Engineering
The attached Verification Survey documents we 4/27/02 . The results criteria as contained in the UAO, have been met.	
Authorization is hereby granted to commence back	tfill and restoration work at this excavation
Signed: Jemeto Simi	Date 9/27/07
Veeneta Simon	(Print Name)
On-Scene Coordinater	(Print Title)
For U.S. EPA Region V	•

# FORM 223-1 NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

Area Identification:	D-J/24.5-27	(AREA IV FINAL SANT)
	9-23-02	
Time of Verification Survey	9:30	(am/pm
		e and date indicated above. Thured by the Site Removal Action
Documents pertaining to th	is survey are attached for review	and approval by the U.S. EPA
Signed:	Juennine	Date
Dumarsais J.	Juennier	(Print Name)
The Coordin	0400	(Print Title)
SS	STS Consu Solutions through Science & E	
criteria as contained in the	UAO, have been met.	wed by U.S. EPA, Region V of survey indicate that the verification
Authorization is hereby gra	inted to commence backfill and r	estoration work at this excavatio
Signed. Verneto Si	m'	Date 9/27/c2_
Verneta Si		(Print Name)
On-Scene	Covedinator	(Print Title)
For U.S. EPA Region V		

### Nutrani Gamma Spec Report- 341 East Ohio Street Site

Phase II Sand Samples for September 25, 2002

Sample	Sample	Sample	Description	Weight	1	U-238	Th-232	Th-232	Ra-226	Re-226 Uncertainty	Total Radium Activity	Total Radium
Ü	Date	Group	1		Activity	Uncertainty	Activity	Uncertainty	Activity			Uncertainty
		EPA										
888	9/25/02	Sand	S1520 J-N/21-22	34.4	0.47	2.49	0.41	0.71	1.6	. 1	2.01	1.226417547
~	· · · · · · · · · · · · · · · · · · ·	EPA	The second of the second	- 1			i	!				
889	9/25/02	Sand	S1521 J-N/22-23	35.1	-3.83	1.55	1.04	0.48	0.67	0.64	1.71	3.0
		EPA	Para material and a first and a second and a				1	ingeneral erre	i			
890	9/25/02	Sand	S1522 J-N/23-24	33.2	-3.08	2.16	0.71	0.64	1.78	0.91	2.49	1.112519883
ar agreements de Bright	handa an	EPA	de nationales e administration arministration (2 mg - 1 m ( 2 1		- <del> </del>		ļ	<u> </u>				
891	9/25/02	Sand	S1523 J-N/24-25	33.9	-1.93	1.71	1.12	0.51	C.8	95.0	1.92	0.85
		EPA	The state of the s					[	Ť			
892	9/25/02	Sand	S1524 J-N/25-26	36.5	-1.49	1.62	0.1	0.47	1.21	0.64	1.31	0.794040301
		EPA	en er et de de la de et de la companyation de la co	- i				† · · · · · · · · · · · · · · · · · · ·				
893	9/25/02	Sand	S1525 J-N/28-27	33	-0.8	2.52	1.67	0.75	0.68	0.99	2.35	1.242014493
		<b>EPA</b>					T			!		
894	9/25/02	Send	S1528 F-W24.5-27	34.4	0.54	2.64	-0.23	0.74	1.44	1.06	1.21	1.29274900
	tellederson in a steel constituted to	EPA					1			and a second size	· · · · · · · · · · · · · · · · · · ·	
895	9/25/02	Sand	S1527 D-F/24.5-27	35	-0.59	2.36	-0.23	0.7	2.21	1	1.93	1.22065556
		EPA	a commence consume and analysis of the consumer of the consume	·			1	::	Ť			
896	9/25/02	Sand	S1528 H-J/24.5-27	36.4	-2.61	2.08	1.86	0.62	-1	0.6	0.83	1.01212647



PHONE:

FAX:

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### Nutrani Gamma Spec Report- 341 East Ohio Street Site

Exclusion Zone Confirmatory Samples for September 19, 2002

Sample	Sample	Sample	Description	Weight	U-238	U-238	Th-232	Th-232	Ra-226	Ra-226	<b>Total Radium</b>	Total Radium
ID	Date	Group			Activity	Uncertainty	Activity	Uncertainty	Activity	Uncertainty	Activity	Uncertainty
870	9/19/02	EPA	S1510 I-J.5/17.5-19 EPA#1	35, 1	1.19	1.65	-0.11	0.47	0.33	0.64	0.22	0.794040301
871	9/19/02	EPA	S1511 I-J.5/17.5-19 EPA/2	34.1	2.18	2.13	-0.1	0.6	1.58	0.85	1.46	1.040432602
872			S1512 I-J.5/17.5-19 EPA#3	32.1	-1,48	1.99	0.48	0.59	0.72	0.8	1.2	0.994032193
873	9/19/02	EPA	\$1513 I-J.5/17.5-19 EPA#4	35	-2.74	2.04	1.04	0.62	1.11	0.83	2.15	1.036001931
874	9/19/02	EPA	S1514 I-J.5/17.5-19 EPA#5	34.2	2.8	1.61	-0.38	0.45	1.07	0.62	0.71	0.766093989

Average Total Radium (Th-232+Ra-226) Concentration for :

I-J.5/17.5-19 =

1.15

pCi/g

Sample (D	Sample Date	Sample Group	Description	Weight	U-236 Activity	U-238 Uncertainty	Th-232 Activity	Th-232 Uncertainty	Ra-226 Activity	Ra-226 Uncertainty	Total Radium Activity	Yotel Redium Uncertainty
875	9/19/02	EPA	S1515 J.5-L/17.5-19 EPA#1	34	-0.17	1,78	0.49	0.5	-0.13	0.67	0.36	0.83600239
676	9/19/02	EPA	S1516 J.6-L/17.5-19 EPA#2	33.1	1.95	2.12	0.56	0.63	2.54	0.85	3.1	1.05801701
877	9/19/02	EPA	S1517 J.5-L/17.5-19 EPA#3	34	-0.65	1.9	0.82	0.55	1.35	0.73	2.17	0.91400218
878	9/19/02	EPA_	S1518 J.5-L/17.5-19 EPA#4	32	-2.04	2.45	1.55	0.76	1.22	0.69	2.77	1.24807852
879	9/19/02	EPA	S1519 J.5-L/17.5-19 EPA#5	34	-0.48	2.83	-0.23	0.82	2.92	1.13	2.69	1.39617334
Averaç	e Total	Radium	(Th-232+Ra-226) C	oncentr	ation for :		J.5-L/	17.5-19 =	:	2.22	pCi/g	

Phase II Sand Samples 9/19/02

Bample ID	Sample Date	Sample Group		Weight	U-238 Activity	U-236 Uncertainty	Th-232 Activity	Th-232 Uncertainty	Re-228 Activity	Re-226 Uncertainty	Total Radium Activity	Total Radium Uncartainty
863		EPA Sand	S1503 L-N/11-13	36	0.6	1.98	-0.09	0.56	1.42	0.78	1.33	0.96020831
964	9/19/02	EPA Send	S1504 L-N/13-15	34.7	0.12	1.7	0.32	0.49	1.66	0.68	1.98	0.83815273
865		EPA Send	S1505 L-N/15-17	34.7	2.55	1.87	0.54	0.52	0.93	0.71	1.47	0.880056816
886	9/19/02	EPA Sand	S1506 L-N/17-19	32.7	-0.99	1.97	0.26	0.58	0.59	0.78	0.85	0.97200823
867	9/19/02	EPA Sand	S1507 L-N/19-21	35.6	1.32	2.27	-0.56	0.85	2.83	0.93	2.28	1.134636506
968	9/19/02	EPA Sand	S1508 I-L/17-19	33.7	1.2	2.2	-0.12	0.61	0.44	0.83	0.32	1.03004854
869	9/19/02	EPA Sand	S1509 I-L/19-21	34.8	-1,75	2.89	0.2	0.64	1.14	1.19	1.34	1.456805843

### FORM 223-1 NOTIFICATION OF SUCCESSELL VERIFICATION SUBVEY

	0, 0000230, 02	ALLAH III	PANSK II
ea Identification:	17.5-19	Excle	ISION ZONO
ate of Verification Survey:	7-19-02		
me of Verification Survey	12:00 Pm	7	am/pm
e above-described excavationvey indicated that all soils hiteria.			
ocuments pertaining to this sur	rvey are attached fo	r review and appro	val by the U.S. EPA.
gned:	, /		
for i	lod-		Date 9-20-
Tolta A	mola esce		(Print Name)
RECONDS	Monrae	Kr	(Print Title)
SC		TS Consultants, Ltd. Science & Engineering	
ne attached Verification Surv GDO CO iteria as contained in the UAO	The results		
uthorization is hereby granted	to commence back	fill and restoration v	work at this excavation
gned: ,			
Jewish Sinor	·		Date 9/20/(2
Verneto Simo			(Print Name)
on-Scene Cookaina	itur		(Print Title)
or U.S. EPA Region V		•	

# FORM 223-1 NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

	AKKA III. PHONE II. F.
Area Identification: $L-N$ , $11-21 + T-L$	17-21 (SAND)
Date of Verification Survey: 9-19-02	
Time of Verification Survey	am/pm
The above-described excavation was surveyed a survey indicated that all soils have been remove Criteria.	at the time and date indicated above. The das required by the Site Removal Action
Documents pertaining to this survey are attached	for review and approval by the U.S. EPA
Signed:	•
fole lul-	Date 9-20-02
Tolla Andresson	(Print Name)
RECORDS MANNER	(Print Title)
Solutions through	STS Consultants, Ltd. th Science & Engineering
The attached Verification Survey documents w 912012 The resulterial as contained in the UAO, have been met.	ere reviewed by U.S. EPA, Region V o ts of this survey indicate that the verificatio
Authorization is hereby granted to commence bac	kfill and restoration work at this excavation
Signed: ) Weredo Simo	Date 9/20/12
Veirnette Simin	,
	(Print Name)
On Scene Coordinator	(Print Title)
For U.S. EPA Region V	<b>.</b>

### STS Consultants, Ltd.

750 Corporate Woods Parkway Vernon Hills, IL 60061 Phone: (847) 279-2500 Fax: (847) 279-2510



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### FORM 223-1 NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

rea Identification:
ate of Verification Survey: <u>9-5-02</u>
ime of Verification Surveyam/pm
he above-described excavation was surveyed at the time and date indicated above. The urvey indicated that all soils have been removed as required by the Site Removal Action riteria.
ocuments pertaining to this survey are attached for review and approval by the U.S. EPA.
igned:
John M. Date 9.5-02
John Brudingo- (Print Name)
Rusanos Mongan (Print Title)
(1 mil mil)
STS Consultants, Ltd.  Solutions through Science & Engineering
STS Consultants, Ltd.
STS Consultants, Ltd.  8 Solutions through Science & Engineering  the attached Verification Survey documents were reviewed by U.S. EPA, Region V of State of this survey indicate that the verification
STS Consultants, Ltd.  Solutions through Science & Engineering  the attached Verification Survey documents were reviewed by U.S. EPA, Region Vo  The results of this survey indicate that the verification riteria as contained in the UAO, have been met.
STS Consultants, Ltd.  Bolutions through Science & Engineering  the attached Verification Survey documents were reviewed by U.S. EPA, Region V of the results of this survey indicate that the verification riteria as contained in the UAO, have been met.  Suthorization is hereby granted to commence backfill and restoration work at this excavation signed.
STS Consultants, Ltd.  Bolutions through Science & Engineering  the attached Verification Survey documents were reviewed by U.S. EPA, Region V of the results of this survey indicate that the verification riteria as contained in the UAO, have been met.  Suthorization is hereby granted to commence backfill and restoration work at this excavation signed.
sts consultants, Ltd.  Solutions through Science & Engineering  the attached Verification Survey documents were reviewed by U.S. EPA, Region V o  The results of this survey indicate that the verification riteria as contained in the UAO, have been met.  Survey indicate that the verification riteria as contained in the UAO, have been met.

#### Nutrani Gamma Spec Report- 341 East Ohio Street Site

Exclusion Zone Confirmatory Samples for September 5, 2002

Sample	Semple	Sam ple	Description	Weight	U-238	U-238	Th-232	Th-232	Ra-226	Ra-224	Total Radium	Total Radium
ID D	Date	Group			Activity	Uncertainty	Activity	Uncertainty	Activity	Uncertainty	Activity	Uncertainty
797	9/5/02	EPA	S1457 L-L.75/5.75-6.5 EPA#1	24.4	2.07	2.32	1.41	0.66	1.18	0.87	2.57	1.092016483
798	9/5/02	EPA	S1458 L-L.75/5.75-6.5 EPA#2	27.8	1.3	2.4	1.99	0.69	1.75	0.91	3.74	1.142015762
799	8/5/02	EPA	\$1459 L-L.75/6.75-6.5 EPA#3	28.1	1.54	1.97	1.75	0.57	2.59	0.77	4.34	0.958018789
800	9/5/02	EPA	81460 L-L.75/5.75-8.5 EPA#4	27	-1.01	1.94	2.21	0.57	2.21	0.76	4.42	0.95
801	9/5/02	EPA	61461 L-L.75/5.75-6.5 EPA#6	29.1	0.72	2,22	2.63	0.65	1.21	0.84	3,84	1.06212052

Average Total Radium (Th-232+Ra-226) Concentration for: L-L.75/5.75-6.5 = 3,78 pCi/g

9

•

#### \*\*\* TRANSMISSION REPORT \*\*\*

SEP-05-02 12:09 ID:3123532034

TECH TEST

JOB NUMBER

419

INFORMATION

OK

TELEPHONE NUMBER

**CODE** 97556022

NAME (ID NUMBER)

START TIME

SEP-05-02 12:08

PAGES TRANSMITTED

002

TRANSMISSION MODE

ECM

RESOLUTION

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REDIALING TIMES

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SECURITY

OFF

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MACHINE ENGAGED

00'53

THIS TRANSMISSION IS COMPLETED.

LAST SUCCESSFUL PAGE

002

GEPA



# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION 5 EMERGENCY RESPONSE BRANCH Mail Code: SE-5J

FACSIMILE COVER PAGE

PHONE:

(312) 353-2318 (312) 353-9176

DATE: 9/5/02
, ,
TO: John Andress
ORGANIZATION STS Consultants
FAX NUMBER: (312) 755-6022
FROM: Verner Simon
SUBJECT: 4-4.75, 5.75-6.5

NUMBER OF PAGES TO FOLLOW (INCLUDING COVER SHEET): 2 MESSAGE:



PHONE:

FAX:

MESSAGE:



# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION 5 EMERGENCY RESPONSE BRANCH Mail Code: SE-5J

#### FACSIMILE COVER PAGE

DATE: 9/6/0	72
TO: John	
	STS Consultants
	(312)755-6022
	neta Simon.
	9 II - Phase II L-N, I-L, etc

NUMBER OF PAGES TO FOLLOW (INCLUDING COVER SHEET): 3

(312) 353-2318

(312) 353-9176

THE INFORMATION CONTAINED IN THIS EAX IS INTENDED FOR THE RECIPIENT ONLY





# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION 5 EMERGENCY RESPONSE BRANCH Mail Code: SE-5J

#### FACSIMILE COVER PAGE

PHONE:	(312) 353-2318
FAY.	(312) 353-9176

DATE: 9/5/62
TO: John Andreson
ORGANIZATION STS Consultants
FAX NUMBER: (312) 755-6022.
FROM: Verner Simon .
SUBJECT: L-L.75, 5.75-6.5
NUMBER OF PAGES TO FOLLOW (INCLUDING COVER SHEET): 2  MESSAGE:

8/34/1/

FORM 223-1
NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

Area Identification:	10-21 #1	(SAND)
Pate of Verification Survey:		
ime of Verification Survey		am/pm
he above-described excavation was urvey indicated that all soils have b criteria.		
ocuments pertaining to this survey a	are attached for review	w and approval by the U.S. EPA.
Signed:	,	
Joh but		Date 8:30-0.
John Andh	nser_	(Print Name)
RECONDS M	magen	(Print Title)
SS	STE Cons Solutions through Science &	ultunts, Ltd. Engineering
the attached Verification Survey de 1800 CZ	The results of this	ewed by U.S. EPA, Region V o survey indicate that the verification
authorization is hereby granted to co	mmence backfill and	restoration work at this excavation
Signed:		
Velueta Sinon		Date 8/3√/c2
Vacneta Simon		(Print Name)
On-Scene Coordinator	·	(Print Title)
For U.S. EPA Region V		

FORM 223-1 NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY Area Identification: I-L 95-11 SAND Date of Verification Survey: 8+30-02 The above-described excavation was surveyed at the time and date indicated above. The survey indicated that all soils have been removed as required by the Site Removal Action Criteria. Documents pertaining to this survey are attached for review and approval by the U.S. EPA. Signed: \_\_\_\_\_ Date 8-30-02\_ \_\_\_\_\_(Print Name) (Print Title) STS Consultants, Ltd. Solutions through Science & Engineering The attached Verification Survey documents were reviewed by U.S. EPA, Region V o . The results of this survey indicate that the verificatio criteria as contained in the UAO, have been met. Authorization is hereby granted to commence backfill and restoration work at this excavation Signed: (Print Name)

Page 4

(Print Title)

For U.S. EPA Region V

On-Scene Covedinatur

### FORM 223-1 NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

Area Identification: 7.5-6, 1-9.5. (SAN)	)
Date of Verification Survey: 8-30-02	
Time of Verification Survey 9-00	am/pm
The above-described excavation was surveyed at the time and date ind survey indicated that all soils have been removed as required by the Si Criteria.	
Documents pertaining to this survey are attached for review and approval	by the U.S. EPA.
Signed:	
Jah Col 0	ate <u>\$30.0</u>
RECORDS MANAGER	(Print Name)
RECORDS MANAGER	_ (Print Title)
STS Consultants, Ltd. Solutions through Science & Engineering	
	EPA, Region V o that the verificatio
The attached Verification Survey documents were reviewed by U.S. E	
The attached Verification Survey documents were reviewed by U.S. Engineering  The attached Verification Survey documents were reviewed by U.S. Engineering  The results of this survey indicate criteria as contained in the UAO, have been met.	
The attached Verification Survey documents were reviewed by U.S. Engineering  The results of this survey indicate criteria as contained in the UAO, have been met.  Authorization is hereby granted to commence backfill and restoration work Signed:	
The attached Verification Survey documents were reviewed by U.S. Engineering  The results of this survey indicate criteria as contained in the UAO, have been met.  Authorization is hereby granted to commence backfill and restoration work Signed:	at this excavation
The attached Verification Survey documents were reviewed by U.S. Engineering  The results of this survey indicate criteria as contained in the UAO, have been met.  Authorization is hereby granted to commence backfill and restoration work Signed:	at this excavation

### STS Consultants, Ltd.

750 Corporate Woods Parkway Vernon Hills, IL. 60061 Phone: (847) 279-2500 Fax: (847) 279-2510



#### **FACSIMILE TRANSMISSION**

To:	Company Name:	Fax No.:
YERNEVA S	IMON USEPA	3/2-353-9/
FARD MickE		
		0
From: John	Indanson S.V.S	FAX 312.755-602
Res />MD	341 E. OHO	**************************************
2110	SII K. ONTO	
☐ For Review ☐	] Piesse Comment/Reply 🔲 As Requ	uested For Signature
☐ For Review ☐	Please Comment/Reply As Requ	uested For Signature
	Please Comment/Reply As Requ	uested For Signature
Message:		
Message:		
Message:  ARRA I	, PHOSE II FINAL	
Message:	, PHOSE II FINAL	
Message:  ARRA I  CTOE, 10 TO 2	PHYSK II FINAL	- (SAND)
Message:  ARRA I  CTOE, 10 TO 2	, PHOSE II FINAL	- (SAND)
Message:  ARRA I  CTOE, 10 TO 2  MKA II,	PHOSE IL FINAL	(5AND) (5AND)
Message:  ARRA I  CTOE, 10 TOZ  ARRA II,  I-L, 9.5-	PHASE IL FINAL	(5AND) (5AND)
Message:  ARRA I  CTOE, 10 TOZ  ARRA II,  I-L, 9.5-	PHASE IL FINAL (SIM	(5AND) (5AND)

IF YOU DO NOT RECEIVE ALL PAGES, PLEASE CALL (847) 279-2500 IMMEDIATELY

 $(x_1, x_2, \dots, x_n) = (x_1, x_2, \dots, x_n) + (x_1, x_1, \dots, x_n) + (x_1, x$ 

### Nutrani Gamma Spec Report- 341 East Ohio Street Site

Phase II Sand Samples for August 30, 2002

Sample	Sample	Sample	Description	Weight	U-238	ป-238	Th-232	Th-232	Ra-226	Ra-226	Total Radium	Total Radium
ID.	Date	Group		_11	Activity	Uncertainty	Activity	Uncertainty	Activity	Uncertainty	Activity	Uncertainty
		EPA										
776	8/30/02	Sand	S1442 J.5-L/1-4	35.7	-3,56	2.32	0.57	0.71	0.91	0.96	1.48	1.1940268
		EPA	6					10				
777	8/30/02	Sand	S1443 J.5-L/4-7	36.8	-1.13	2.58	1.64	0.79	0.35	1.03	1.99	1.298075490
		EPA									1	
778	8/30/02	Sand	S1444 J.5-L/7-9.5	35.6	1.75	3	-0.84	0.68	2.85	1.26	2.01	1.536879956
		EPA	<b>t</b>	i								
779	8/30/02	Sand	S1445 I-L/9.5-11	35.3	4.71	2.36	-0.44	0.66	1.43	0.89	0.99	1.108016245
		EPA										,
780	8/30/02	Sand	S1448 C-E/10-12	38	-0.19	2.18	0.86	0.56	0.2	0.85	1.06	1.076150547
	:	EPA										
781	8/30/02	Sand	S1447 C-E/12-14	41.8	3.25	1.81	-0.01	0.51	0.29	0.68	0.28	0.85
		EPA						í				
. 782		<del>^</del> ~~~~~~~~	S1448 C-E/14-18	40.6	3.5	2.29	0.63	0.64	1.21	0.88	1.84	1.072007483
		EPA		1	<b>.</b> .	i		:	i .			
783			S1449 C-E/16-18	36.7	-2.92	2.93	0.23	0.9	0.27	1.21	0.5	1.508011936
		EPA				_	_					
784			S1450 C-E/18-20	36.3	1,17	2.7	0.36	0.76	0.65	1.04	1.01	1.28809937
	:	EPA		į				i }			!	
785	8/30/02	Sand	S1451 C-E/20-21	33	-2.35	1.77	0.15	0.53	2.98	0.76	3.11	0.926552751

### United States Environme tal Protection Agency



Region V 77 West Jackson Blvd. Chicago, Illinois 60604

### Superfund Division Emergency Response Branch

## FACSIMILE COVER SHEET FAX #: 312 353-9176

TO: John Anderson	DATE: 8/30/ CZ
COMPANY: STS	FAX#: (312)755-6022
FROM: Vernata Simon	MAILCODE: SE-5)
PHONE: (312) 886-3601	-
PAGES (including cover sheet):	4
MESSAGE:	

#### \*\*\* TRANSMISSION REPORT \*\*\*

97556022

AUG-30-02 14:54 ID:3123532034

TECH TEST

JOB NUMBER

387

INFORMATION CODE

TELEPHONE NUMBER

ОК

NAME(ID NUMBER)

START TIME

AUG-30-02 14:51

PAGES TRANSMITTED

004

TRANSMISSION MODE

ECM

RESOLUTION

FINE

REDIALING TIMES

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SECURITY

OFF

MAILBOX

OFF

MACHINE ENGAGED

02'54

THIS TRANSMISSION IS COMPLETED.

LAST SUCCESSFUL PAGE

United States Environme tal Protection Agency

Region V 77 West Jackson Blvd. Chicago, Illinois 60604

Superfund Division **Emergency Response Branch** 

**FACSIMILE COVER SHEET** FAX #: 312 353-9176

TO: John Anderson	DATE: 8/30/cz
COMPANY: STS	FAX#: (312)755-6022
FROM: Verenata Simon	MAILCODE: SE-53
PHONE: (312) 886-3601	
PAGES (including cover sheet): 4	<u>.                                    </u>
MESSAGE:	

J. 10

### FORM 223-1 NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

Area Identification: Y-5 - //	ARAA TE YIMSE I
Date of Verification Survey: 8-26-02	Exclusion Zone
Time of Verification Survey 8:30	am/pm
The above-described excavation was surveyed at survey indicated that all soils have been removed Criteria.	
Documents pertaining to this survey are attached for	review and approval by the U.S. EPA.
Signed:	
for late	Date 8-26-0
John Andragon	(Print Name)
Precoros monagan	(Print Title)
	r& Consultants, Ltd. cience & Engineering
The attached Verification Survey documents were 27, 202 The results of criteria as contained in the UAO, have been met.	
Authorization is hereby granted to commence backfil	Il and restoration work at this excavation
Signed.	·
Fredrick a. micke	Date 8 27 02
FREDRICK A. MICKE	(Print Name)
ON-SCENE COORDINAT	OR (Print Title)

### FORM 223-1 NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

		AHLA	I PHASE IL FIN
Area Identification:	1.5- J.5 , 1-	7.5	A
Date of Verification Survey	1. 8-26-02		sand)
Time of Verification Surve	8:30 m		am/pm
	avation was surveyed at to soils have been removed a		
Documents pertaining to ti	nis survey are attached for	review and appr	oval by the U.S. EPA.
Signed:			
ph he			Date 8-26-02
John And	naso-		(Print Name)
Riconps	monagen		(Print Title)
ES		B Consultants, Ltd. lence & Engineering	
The attached Verification  Oug. 27, 20  criteria as contained in the	Survey documents were OZ . The results of UAO, have been met.	reviewed by U f this survey indi	.s. EPA, Region V o cate that the verificatio
Authorization is hereby gra	anted to commence backfill	and restoration	work at this excavation
Signed:			1 .
Fredrick	a. Micke		Date 8/27/02
	A. MICKE		(Print Name)
ON - SCEI	VE COORDINA	TOR	(Print Title)
For U.S. EPA Region V		•	

#### Nutrani Gamma Spec Report- 341 East Ohio Street Site

763 8/26/02 EPA \$1437 1.5-K/9.5-11 EPA#1 36.4 4.52 1.39 -0.5 0.38 0.98 0.51 0.48 0.6360031-764 8/26/02 EPA \$1438 1.5-K/9.5-11 EPA#2 37.5 -0.64 2.11 0.8 0.63 1.44 0.84 2.04 1.765 8/26/02 EPA \$1439 1.5-K/9.5-11 EPA#3 37.7 -1.35 2.22 0.11 0.65 2.13 0.91 2.24 1.1183022 768 8/28/02 EPA \$1440 1.5-K/9.5-11 EPA#4 36.4 -1.26 1.64 0.91 0.48 1.11 0.64 2.02	Sample	Sample	Sample	!	Descript	ion	_ [₩	ieight	U-238	U-238	Th-232	Th-232	Rs-226	Ra-226	Total Radium	Total Radium
764 8/28/02 EPA \$1438   .5-K/9.5-11 EPA#2 37.5 -0.64 2.11 0.8 0.63 1.44 0.84 2.04 1.05 8/28/02 EPA \$1439   .5-K/9.5-11 EPA#3 37.7 -1.35 2.22 0.11 0.65 2.13 0.91 2.24 1.1183022 766 8/28/02 EPA \$1440   .5-K/9.5-11 EPA#4 38.4 -1.26 1.64 0.91 0.48 1.11 0.64 2.02 0.00 0.00 0.00 0.00 0.00 0.00 0.0	ID	Date	Group	İ					Activity	Uncertainty	Activity	Uncertainty	Activity	Uncertainty	Activity	Uncertainty
765 8/26/02 EPA \$1439   .5-K/9.5-11 EPA#3 37.7 -1.35 2.22 0.11 0.65 2.13 0.91 2.24 1.1183022 766 8/26/02 EPA \$1440   .5-K/9.5-11 EPA#4 38.4 -1.26 1.64 0.91 0.48 1.11 0.64 2.02	763	8/26/02	EPA	S1437 I.	5-K/9.5-	11 EPA	1	36.4	4.52	1.39	-0.5	0.38	0.96	0.51	0.48	D.63600314
786 8/28/02 EPA S1440 I.5-K/9.5-11 EPA#4 38.4 -1.26 1.64 0.91 0.48 1.11 0.64 2.02 0	784	8/26/02	EPA	S1438 I.	5-K/8.5-	11 EPA	12	37.5	-0.64	2.11	0.8	0.63	1.44	0.84	2.04	1.0
	785	8/26/02	EPA	S1439 I.	5-K/9.5-	11 EPA	<b>K3</b>	37.7	-1.35	2.22	0.11	0.65	2.13	0.91	2.24	1.1183022
767 8/26/02 EPA   \$1441 1.5-K/9.5-11 EPA/5   37.2   1.88   2.15   0.16   0.61   1.37   0.83   1.63   1.0300485		8/28/02	EPA	S1440 I.	5-K/9.5-	11 EPA	14	36.4	-1.28	1.64	0.91	0.48	1.11	0.64	2.02	0
	767	8/26/02	EPA	81441 1.	5-K/9.5-	11 EPA	<b>#5</b>	37.2	1.68	2.15	0.16	0.61	1.37	0.83	1.53	1.03004854

Phase II Sand Samples 8/26/02

1 1100-0-1	CHILD OF	HIPITO 4	72476				<u> </u>					
Sample	Sample	Sample	Description	Weight	U-238	D-\$38	Th-232	Th-232	Ra-226	Ra-226	Total Radium	Total Radium
ID	Date	Group			Activity	Uncertainty	Activity	Uncertainty	Activity	Uncertainty	Activity	Uncertainty
		EPA										
780	8/26/02	Sand	S1434 I.5-J.5/1-4	35.1	-1.32	1,96	0.05	0.59	1.78	0.82	1.83	1.010198
		EPA										
761	8/26/02	Send	S1435 I.5-J.5/4-7	35.8	-0.38	(1.71	0.19	Q.5	0.68	0.67	0.85	0.838002392
		EPA										
762	8/26/02	Sand	S1436 I.5-J.5/7-9.5	34.4	-2.94	\1.49	0.5	0.44	-0.25	D. <b>58</b>	0.25	0.728010989

$$\bar{\nu} = 0.98$$

if negative treated as zero  $\bar{\chi} = 1.06$ 

$$pa = 0.69$$

$$\sqrt{2} = 1.66$$

$$\Delta = 0.71$$

if negative treated as zero

$$\bar{\chi} = 1.76$$

#### STS Consultants, Ltd.

750 Corporate Woods Parkway Vernon Hills, iL 60061 Phone: (847) 279-2500 FAX: (847) 279-2510



#### **FACSIMILE TRANSMISSION**

Date: Sep	otember 4, 2002		•		
To: Ms.	. Verneta Simon or Mr. Fre	d Micke			
Company	United States Environ	nmental Protection Agency	(USEPA)		
Fax #	312-353-9176				
Pages bein	g transmitted, incl. Cove	r: 14			
CC:		Fax No.:			
From:	Steve Kornder	Phone:	847 279-24	18	
Re:	341 East Ohio Street P	roject, Chicago, Illinois		•	
Urgent [	For Signature For Review	Please Comment/Reply	As Requested	Original to Follow	
Message:					
Per the USEPA letter of July 7, 2002, STS is enclosing sign-off forms and associated pre-verification (immunoassay) and laboratory verification results for your review for the pesticide investigation at the above referenced site. Included with this fax are sign-off forms for base of excavation samples H-16 and H-18 and sidewall samples collected at grid designations D½-16, D½ 18, D½-20 and J½-8.					
Please feel free to contact us if you have any questions regarding the attached analytical information.					
Sincerely, Steve Korno	A James de la companya de la company				

**IMPORTANT:** This facsimile is intended only for the of the individual or entity to which it is addressed and may contain information that is privileged, confidential, and exempt from disclosure under applicable law. If the reader of this facsimile is not the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone and return this facsimile to us at the above address via the United States Postal Service. Thank you.

### Chlordane Immunoassay Field Results Summary 341 East Ohio Street

Date:09/3/2002

Sample Location <sup>1</sup>	Sample Date	Time	Sample Type <sup>2</sup>	Chlordane Immunoassay Field Kit <sup>3</sup> (mg/kg)
H16	08/23/2002	13:50	base	0.001
H18	08/23/2002	13:40	base	0.036
D1⁄2-16	08/23/2002	13:45	vertical	0.019
D1⁄2-18	08/23/2002	13:50	vertical	0.05
D1/2-20	08/23/2002	13:55	vertical	0.734⊄
J½-8	08/23/2002	14:00	vertical	0.009

#### Notes:

- 1- Sample location is the center point of the 10 X 10 meter grid for base of excavation samples. The location designation for vertical samples indicates the actual sample location.
- 2 Base Composite sample from the base of the excavation (five grab samples from 100 m2 area). Sidewall - Vertical composite of five grab samples from excavation side wall.
- 3 The chlordane immunoassay kit does not differentiate between chlordane and other cyclodienes such as heptachlor, refer to method documentation for information on the relative sensitivities.

#### STS ACQUISITIONS CO. dba STS CONS., LTD.

#### Client Sample ID: J.5-8

#### GC Semivolatiles

Lot-Sample #: F2H280	172-006 Work Order	#: E7A811AA	Matrix SOLID
----------------------	--------------------	-------------	--------------

Date Sampled...: 08/23/02 14:20 Date Received..: 08/27/02 Prep Date...: 08/29/02 Analysis Date..: 08/30/02 Prep Batch #...: 2241300 Analysis Time..: 14:55

Dilution Factor: 10

\* Moisture....: 21 Method.....: SW846 8081A

		reporting	
PARAMETER	RESULT	LIMIT	UNITS
Aldrin	ND	22	ug/kg
alpha-BHC	ND	22	ug/kg
gamma-BHC (Lindane)	ND	22	ug/kg
Chlordane (technical)	NID	220	ug/kg
4,4'-DDT	ND	22	ug/kg
Dieldrin	ND	22	ug/kg
Heptachlor	NID	22	ug/kg
Heptachlor epoxide	NID	85	ug/kg
		10 miles 10 miles 10 miles	

	PERCENT	RECOVERY
SURROGATE	RECOVERY	LIMITS
Decachlorobiphenyl	0.0 DIL,NC	(50 - 151)
Tetrachloro-m-xylene	0.0 DIL,NC	(64 - 131)

#### NOTE(S):

Results and reporting limits have been adjusted for dry weight.

DIL. The concentration is estimated or not reported due to dilution or the presence of interfering analyses.

NC The recovery and/or RPD were not calculated.

#### FORM FOR NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY PESTICIDE

Project Name/Number: <u>341 East Onio Street, Chicago, Illinois</u>
Area Identification: $\frac{5/2-8}{}$
Date of Verification Survey: 8/23/02
Time of Verification Survey: 2-00 and and another another and another another another and another another and another anot
The above-described excavation was sampled for pesticides at the time and date indicated above. The analytical results indicated that all pesticide-impacted soils have been removed as required by the Site Removal Action Criteria.
Documents pertaining to the pre-verification immunoassay and laboratory results for pesticides are attached for review and approval by the USEPA.
Signed:
Signed:
Print Name: Steve C. Kornder
Print Title: Senior Project Geochemist
STS Consultants, Ltd.
The attached Verification Survey documents were reviewed by USEPA, Region 5 on 1/1/1/2
Authorization is hereby granted to commence backfill and restoration work at this excavation.
Signed: Newers Sinus
Date: 9/4/02
Print Name: YEENET Simon
Print Title: On-Scene Coordinator
For USEPA Region 5

#### STS ACQUISITIONS CO. dba STS CONS., LTD.

Client Sample ID: D.5-20

#### GC Semivolatiles

Lot-Sample #: F2H280172-	005 Work Order #: E7A8X1AA	Matrix SOLID
--------------------------	----------------------------	--------------

 Date
 Sampled...:
 08/23/02
 13:55
 Date
 Received...:
 08/27/02

 Prep
 Date...:
 08/29/02
 Analysis
 Date...:
 08/30/02

 Prep
 Batch #...:
 2241300
 Analysis
 Time...:
 14:41

Dilution Factor: 10

\* Moisture....: 25 Method.....: SW846 8081A

RESULT 1.5 J	LIMIT 23	UNITS	-
1.5 J	12	4-	
	43	ug/kg	
6.2 J,COL	23	ug/kg	
ND	23	ug/kg	
ND	230	ug/kg	
8.5 J,COL	23	ug/kg	•
ND	23	ug/kg	
19 J,COL	23	ug/kg	
55 J,COL	89	ug/kg	
	ND 8.5 J,COL ND 19 J,COL	ND 23 ND 230 8.5 J,COL 23 ND 23 19 J,COL 23	ND 23 ug/kg ND 230 ug/kg 8.5 J,COL 23 ug/kg ND 23 ug/kg 19 J,COL 23 ug/kg

	PERCENT	KECOARKA
SURROGATE	RECOVERY	LIMITS
Decachlorobiphenyl	0.0 DIL,NC	(50 - 151)
Tetrachloro-m-xylene	0.0 DIL,NC	(64 - 131)

#### MOTE(S):

Villaged /

Reputs and reporting limits have been adjusted for dry weight.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analyses.

NC The recovery and/or RPD were not calculated.

J Estimated result. Result is less than RL.

COL More than 40% difference between primary and confirmation column results. The lower of the two results is reported.

## FORM FOR NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY **PESTICIDE**

Project Name/Number: 341 East Ohio Street, Chicago, Illinois
Area Identification: D/2-20 (vertical composite)
Date of Verification Survey: 8/23/02
Time of Verification Survey:anopm
The above-described excavation was sampled for pesticides at the time and date indicated above. The analytical results indicated that all pesticide-impacted soils have been removed as required by the Site Removal Action Criteria.
Documents pertaining to the pre-verification immunoassay and laboratory results for pesticides are attached for review and approval by the USEPA.
Signed:
Date: 9/3/02
Print Name: Steve C. Kornder
Print Title: Senior Project Geochemist
STS Consultants, Ltd.
The attached Verification Survey documents were reviewed by USEPA, Region 5 or
as discussed in the Amended Removal Action Work Plan (STS, March 2002) and cleanup levels contained in 35 IAC 742 Appendix B, Table A for ingestion and inhalation, have been met.
Authorization is hereby granted to commence backfill and restoration work at this excavation.
Signed: Veneto Simon
Date: 9/4/02
Print Name: VERNCTA SIMON
Print Title: On- Scene Coordinator
For USEPA Region 5

#### STS ACQUISITIONS CO. dba STS COMS., LTD.

#### Client Sample ID: D.5-18

#### GC Semivolatiles

Lot-Sample #...: F2H280172-004 Work Order #...: E7ASTIAA Matrix.....: SOLID

 Date Sampled...:
 08/23/02
 13:50
 Date Received..:
 08/27/02

 Prep Batch #...:
 2241300
 Analysis Time..:
 14:27

Dilution Factor: 10

\* Moisture....: 20 Method.....: SW846 8081A

		REPORTIN	G
PARAMETER	RESULT	<u>LIMIT</u>	UNITS
Aldrin	ND	21	ug/kg
alpha-BHC	ND	21 '	u <b>g/k</b> g
gamma-BHC (Lindane)	ND	. 21	ug/kg
Chlordane (technical)	ND	210	ug/kg
4,4'-DDT	ND	21	ug/kg
Dieldrin	ND	21	ug/kg
Heptachlor	31	21	ug/kg
Heptachlor epoxide	ND	84	ug/kg

	PERCENT	RECOVERY
SURROGATE	RECOVERY	LIMITS
Decachlorobiphenyl	0.0 DIL,NC	(50 - 151)
Tetrachloro-m-xylene	0.0 DIL,NC	(64 - 131)

#### NOTE(S):

DIL. The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

NC The recovery and/or RPD were not calculated.

Results and reporting limits have been adjusted for dry weight.

# FORM FOR NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY **PESTICIDE**

Project Name/Number: 341 East Ohio Street, Chicago, Illinois .
Area Identification: D12-18 (vertical composite)
Date of Verification Survey: 8/23/02
Time of Verification Survey: 1:50am\orday
The above-described excavation was sampled for pesticides at the time and date indicated above. The analytical results indicated that all pesticide-impacted soils have been removed as required by the Site Removal Action Criteria.
Documents pertaining to the pre-verification immunoassay and laboratory results for pesticides are attached for review and approval by the USEPA.
Signed:
Date: 9/3/02
Print Name: Steve C. Kornder
Print Title: Senior Project Geochemist
STS Consultants, Ltd.
The attached Verification Survey documents were reviewed by USEPA, Region 5 on 1402. The results of this survey indicate that the pesticide verification criteria as discussed in the Amended Removal Action Work Plan (STS, March 2002) and cleanup levels contained in 35 IAC 742 Appendix B, Table A for ingestion and inhalation, have been met.
Authorization is hereby granted to commence backfill and restoration work at this excavation.
Signed: Yelletz Simon
Signed: Velleta Simon  Date: 9/4/02
Print Name: Veeneta Simon
Print Name: Veeneta Simon  Print Title: On-Scene Coundinator
For USEPA Region 5

#### STS ACQUISITIONS CO. dba STS COMS., LTD.

#### Client Sample ID: D.5-16

#### GC Semivolatiles

Lot-Sample #: F2H280172-003	Work Order #: E7A8P1AA	Matrix SOLID
Date Sampled: 08/23/02 13:45	Date Received: 08/27/02	
Prep Date: 08/29/02	<b>Analysis Date:</b> 08/30/02	
Prep Batch #: 2241300	Analysis Time: 14:13	
Dilution Factor: 1		
* Moisture: 22	Method: SW846 8081A	

		REPORTIN	G
PARAMETER	RESULT	LIMIT	UNITS
Aldrin	0.82 J	2.2	vg/kg
alpha-BHC	0.76 J	2-2	ug/kg
gamma-BHC (Lindane)	ND.	2.2	ug/kg
Chlordane (technical)	MD	22	ug/kg
4,4'-DDT	MD.	2.2	ug/kg
Dieldrin	0.81 J	2.2	ug/kg
Heptachlor	1.5 J,COL	2,2	ng/kg
Heptachlor epoxide	CIN	8.6	ug/kg

	PERCENT	RECOVERY
SURROGATE	RECOVERY	LIMITS
Decachlorobiphenyl	88	(50 - 151)
Tetrachloro-m-xylene	69	(64 - 131)

#### Note (s):

Results and reporting limits have been adjusted for dry weight.

I fistimated result. Result is less than RL.

COL More than 40% difference between primary and confirmation column results. The lower of the two results is reported.

#### FORM FOR NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY PESTICIDE

Project Name/Number: 341 East Ohio Street, Chicago, Illinois
Area Identification: D/2-16 (vertical composite)
Date of Verification Survey: 8/23/02
Time of Verification Survey: 1:45 among
The above-described excavation was sampled for pesticides at the time and date indicated above. The analytical results indicated that all pesticide-impacted soils have been removed as required by the Sit Removal Action Criteria.
Documents pertaining to the pre-verification immunoassay and laboratory results for pesticides are attached for review and approval by the USEPA.
Signed: Thurston
Date: 9/3/02
Print Name: Steve C. Kornder
Print Title: Senior Project Geochemist
STS Consultants, Ltd.
The attached Verification Survey documents were reviewed by USEPA. Region 5 on 4 4 07.  The results of this survey indicate that the pesticide verification criterias discussed in the Amended Removal Action Work Plan (STS, March 2002) and cleanup level contained in 35 IAC 742 Appendix B, Table A for ingestion and inhalation, have been met.
Authorization is hereby granted to commence backfill and restoration work at this excavation.
Signed: Vereta Simon
Date: 9/4/62
Print Name: Verneta Simon
Print Title: On-Scene Coordinator
For USEPA Region 5

0

#### STS ACQUISITIONS CO. dba STS CONS., LTD.

#### Client Sample ID: H-18

#### GC Semivolatiles

Lot-Sample #:	F29280172-002	Work Order #	ETARNIAA	Matrix	- SOLID

 Date Sampled...:
 08/23/02
 13:40
 Date Received...:
 08/27/02

 Prep Date....:
 08/29/02
 Analysis Date...:
 08/30/02

 Prep Batch #...:
 2241300
 Analysis Time...:
 13:59

Dilution Factor: 5

\* Moisture....: 13 Method......: SW846 8081A

	REPORTING	
RESULT	LIMIT	UNITS
NID	9.7	ug/kg
NID	9.7	ug/kg
ND	9.7	ug/kg
ND	97	ug/kg
ND	9.7	ug/kg
ND	9.7	ug/kg
12	9.7	ug/kg
5.8 J	38	ug/kg
	NID NID NID NID NID NID NID	RESULT LIMIT  NID 9.7  NID 9.7  NID 9.7  NID 97  NID 97  NID 9.7  NID 9.7  NID 9.7  NID 9.7

	PERCENT	RECOVERY		
SURROGATE	RECOVERY	LIMITS		
Decachlorobiphenyl	0.0 DIL,NC	(50 - 151)		
Tetrachloro-m-xylene	0.0 DIL,NC	(64 - 131)		

#### MOTE(S) =

Results and reporting limits have been adjusted for dry weight.

DIL. The concentration is extinuted or not reported due to dilution or the presence of interfering analytes.

NC The recovery and/or RPD were not calculated.

J Estimated result. Result is less than RL.

# FORM FOR NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY PESTICIDE

Project Name/Number: 341 East Ohio Street, Chicago, Illinois
Area Identification: +1-18
Date of Verification Survey: 8/23/02
Time of Verification Survey: 1:40 and pm
The above-described excavation was sampled for pesticides at the time and date indicated above. The analytical results indicated that all pesticide-impacted soils have been removed as required by the Site Removal Action Criteria.
Documents pertaining to the pre-verification immunoassay and laboratory results for pesticides an attached for review and approval by the USEPA.
Signed: Signed:
Date: 9/3/02
Print Name: Steve C. Kornder .
Print Title: Senior Project Geochemist .
STS Consultants, Ltd.
The attached Verification Survey documents were reviewed by USEPA, Region 5 or 14/1/2
Authorization is hereby granted to commence backfill and restoration work at this excavation.
Signed: Veruft Sinon
Date: 9/4/02
Print Name: VERNETA SIMON
Print Title: On-Scene Coordinator
For USEPA Region 5

#### STS ACQUISITIONS CO. dba STS CONS., LTD.

#### Client Sample ID: H-16

#### GC Semivolatiles

	Lot-Sample #: F2H280172-001	Work Order #: E7A8F1AA	Matrix SOLID
--	-----------------------------	------------------------	--------------

 Date Sampled...:
 08/23/02
 13:50
 Date Received..:
 08/27/02

 Prep Date....:
 08/29/02
 Analysis Date..:
 08/30/02

 Prep Batch \$...:
 2241300
 Analysis Time..:
 13:16

Dilution Factor: 1

\* Moisture....: 12 Method.....: SW846 8081A

		REPORTIN	G
Parameter	RESULT	LIMIT	UNITS
Aldrin	ND	1.9	ug/kg
alpha-BHC	ND	1.9	ug/kg
gamma-BHC (Lindane)	ND	1.9	ug/kg
Chlordane (technical)	ND	19	ug/kg
4,4'-DDT	ND	1.9	ug/kg
Dieldrin	ND	1.9	ug/kg
Heptachlor	ND	1.9	ug/kg
Heptachlor epoxide	ND	7.6	ug/kg
Endrin	ND	1.9	ug/kg
	PERCENT	RECOVERY	•
SURROGATE	RECOVERY	LIMITS	
Decachlorobiphenyl	64	(50 - 15	1)
Tetrachloro-m-xylene	76	(64 - 13	1)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

## FORM FOR NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY **PESTICIDE**

Project Name/Number: 341 East Ohio Street, Chicago, Illinois .
Area Identification: H-16
Date of Verification Survey: 8/23/02
Time of Verification Survey: 150 amprom
The above-described excavation was sampled for pesticides at the time and date indicated above. The analytical results indicated that all pesticide-impacted soils have been removed as required by the Site Removal Action Criteria.
Documents pertaining to the pre-verification immunoassay and laboratory results for pesticides are attached for review and approval by the USEPA.
Signed:
Date: 9/3/02
Print Name: Steve C. Kornder
Print Title: Senior Project Geochemist
STS Consultants, Ltd.
The attached Verification Survey documents were reviewed by USEPA, Region 5 of this survey indicate that the pesticide verification critericas discussed in the Amended Removal Action Work Plan (STS, March 2002) and cleanup levels contained in 35 IAC 742 Appendix B, Table A for ingestion and inhalation, have been met.
Authorization is hereby granted to commence backfill and restoration work at this excavation.
Signed: Wwelf Simon
Date: 9/4/02
Print Name: Verenta Simon
Print Title: on-Scene Coordinator
For USEPA Region 5





### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION 5

#### EMERGENCY RESPONSE BRANCH Mail Code: SE-5J

#### FACSIMILE COVER PAGE

PHONE: (312) 353-2318 FAX: (312) 353-9176

ø

DATE: 9/4/02	
DATE: 9/4/UZ TO: Steve Korndon	_
ORGANIZATION STS Consu Hants	_
FAX NUMBER: (847) 279-2510	_
FROM: VENERA SIMEN	
SUBJECT: 341 EAST ONIS	

NUMBER OF PAGES TO FOLLOW (INCLUDING COVER SHEET): 7 MESSAGE:

14-16 H-18 - D.5-16 D.5-18 - D.5-20 J.5-8

THE INPORMATION CONTAINED IN THIS EAR IS INTENDED FOR THE RECIPIENT ONLY

THIS INCCESSENT PAGE 007

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SEP-04-02 14:35 ID:3123532034



PHONE:

FAX:

(312) 353-2318

(312) 353-9176



# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION 5 EMERGENCY RESPONSE BRANCH Mail Code: SE-5J

#### FACSIMILE COVER PAGE

DATE: 9/4/02
TO: Steve Kornder
ORGANIZATION STS Consultants
FROM: VERNETT SIMON .
SUBJECT: 341 East Ohio
NUMBER OF PAGES TO FOLLOW (INCLUDING COVER SHEET): 7 MESSAGE:
17-16 H-18
- ),5-16 D,5-18
- p.5-20 J.5-8

# FORM 223-1 NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY BRAN ST PHOSE DE FINAL

Area Identification: I-7.5 1-9.5	(SAND)
Date of Verification Survey: 8-26-02	
Time of Verification Survey 3:30	am/pm
The above-described excavation was surveyed at the time and da survey indicated that all soils have been removed as required by the Criteria.	
Documents pertaining to this survey are attached for review and app	roval by the U.S. EPA.
Signed:	
frh lat-	_ Date 8 28 0
Records MONNIAN	(Print Name)
RECORDS MONDYAN	(Print Title)
STS Consultants, Ltd.  Solutions through Science & Engineering	
BTS Consultants, Ltd.	
The attached Verification Survey documents were reviewed by 8 / 28 / 02 . The results of this survey income.	dicate that the verificatio
The attached Verification Survey documents were reviewed by 8 28 02.  The results of this survey incorriteria as contained in the UAO, have been met.	dicate that the verificatio
The attached Verification Survey documents were reviewed by 8 8/28/02. The results of this survey incorriteria as contained in the UAO, have been met.  Authorization is hereby granted to commence backfill and restoration	dicate that the verification
The attached Verification Survey documents were reviewed by 8 8/28/02. The results of this survey incorriteria as contained in the UAO, have been met.  Authorization is hereby granted to commence backfill and restoration Signed:	icate that the verification work at this excavation
The attached Verification Survey documents were reviewed by 8 8/28/02. The results of this survey incorriteria as contained in the UAO, have been met.  Authorization is hereby granted to commence backfill and restoration Signed:  Tredrick A. Micke	n work at this excavation  Date 2/28/02

## Memo

Rich Berggreen, STS Consultants-Project Coordinator

From: Glenn Huber

CC: John Anderson, Records Manager

Date: 08/28/02

Rec EPA Phase II Sand Samples - 341 E. OhioStreet

#### Rich:

Attached is a corrected copy of the NUTRANL Gamma Spec Report from August 28, 2002. The following (3) Phase II sand samples were inadvertently recorded as "1.5-J.5":

Sample Date Description

8/26/02 \$1434 I-J.5/1-4

8/28/02 \$1435 I-J.5/4-7

8/26/02 \$1436 I-J.5/7-9.5

These samples and surveys were performed by USEPA, but were recorded in our sample log and chain of custody incorrectly. As a result, Form 223-1 was submitted after sample analysis requesting an incomplete release of the area. This form will need to be resent in order correct this error and obtain proper release. I have already forwarded a copy of this memo and the corrected analysis report to John Anderson so he can contact the USEPA.

Thanks.

Glenn Huber

#### Nutrani Gamma Spec Report- 341 East Ohio Street Site

Corrected Copy 8/28/02 GAH

Exclusion Zone Confirmatory Samples for August 26, 2002

Semple	Semple	Sample	Description	Weight	U-238	U-238	Th-232	Th-212	Ra-226	Rs-226	Total Radium	Total Redium
מו	Date	Group			Activity	Uncertainty	Activity	Uncertainty	Activity	Uncertainty	Activity	Uncertainty
763	8/26/02	EPA	81437 1.5-K/9.5-11 EPA#1	36.4	4.52	1.39	-0.5	0.38	0.96	0,51	0.46	0.636003145
784		EPA	S1438 1.5-K/9.5-11 EPA#2	37.5	-0.64	2.11	0.6	0.63	1.44	0.84	2.04	1.05
765	8/26/02	EPA	81439 I.5-K/9.5-11 EPA#3	37.7	1.35	2.22	0.11	0.65	2.13	0.91	2.24	1.118302285
786	8/26/02		S1440 I.5-K/8.5-11 EPA#4	36.4	-1.26	1.64	0.91	0.48	1.11	0.84	2.02	0.6
767	8/28/02	EPA	S1441 I.5-K/9.5-11 EPA#5	37.2	1.88	2.15	0.16	0.61	1.37	0.83	1.53	1.030048543
Averag	e Total i	Radium	(Th-232+Ra-226) Co	ncentr	ation fo	r:	1.5-K/	9.5-11 =		1.66	pCi/g	

Phase II Sand Samples 6/26/02

[	Sample ID	Sample Date	Sample Group	Description	Weight		U-238 Uncertainty	Th-232	]	Ra-226	Ra-226	Total Radium Activity	Total Radium Uncertainty
J		Daw	EPA			- CONTAIN T	Crown Carry	- Court	CHOCHELINY	- Convict	Octob on 1113	MOUTHLE	Oncom servicy
4	760	8/26/02		S1434 I-J.5/1-4	35.1	-1.32	1.98	0.05	0.59	1.78	D. <b>82</b>	1.63	1.010198
1	, , ,		EPA	and the state of the state of the Santa Assessant, Budgeton State State	i								
ı	761	8/26/02	Send	S1435 I-J.5/4-7	35.6	-0.38	1.71	0.19	0.5	0.66	0.67	0.85	0.836002392
	1		EPA										
۱,	762	8/26/02	Sand	\$1 <b>43</b> 6 I-J.5/7-9.5	34.4	-2.94	1.49	0.5	0.44	-0.25	0.58	0.25	0.728010989

$$\bar{\chi} = 0.98$$

it negative treated as zero

$$\bar{\chi} = 1.06$$

2.102

## FORM 223-1 NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY

Area Identification:	1-1.5,	9-12	Exclusion zoni	<u></u>
Date of Verification Si	urvey: 8	-21-02		
Time of Verification S	urvey	7:000	·	_am/pm
•		_	ime and date indicate equired by the Site Ro	
Documents pertaining	to this survey are	attached for revi	ew and approval by th	e U.S. EPA.
Signed:			·	
feh	hel	<del></del>	Date _	8:21-02
John	Andras	en	(Pri	nt Name)
TROOP	5 mmng	TEN_		rint Title)
Ca		STS Coi	nsultante, Ltd.	
E	8	olutions through Science		
The attached Verific Criteria as contained in	ation Survey doc	uments were rev		
criteria as contained i	ation Survey doc	uments were rev The results of thi	a Engineering	the verificatio
criteria as contained i	ation Survey doc	uments were rev The results of thi	iewed by U.S. EPA, s survey indicate that	the verificatio
criteria as contained i	ation Survey doc	uments were rev The results of thi	iewed by U.S. EPA, s survey indicate that directoration work at the	the verification his excavation
criterial as contained in Authorization is hereby Signed.	ation Survey doc	uments were rev The results of thi	iewed by U.S. EPA, s survey indicate that directoration work at the Date	the verification
criterial as contained in Authorization is hereto Signed:  Verneto	ation Survey doc n the UAO, have to by granted to comm	uments were rev The results of thi been met.	iewed by U.S. EPA, s survey indicate that d restoration work at the desired part of the Date (Prince of the Date (Prince of the Date (Prince of the Date (Prince of the Date o	the verification his excavation

Area Identification:	E-6	11-21	ARKA I	PHYSE IT FINA
Date of Verification S	urvey:	8-21-02		:
Time of Verification 5	Survey	9:00	· .	am/pm
The above-described	d excavation v	was surveyed at I	he time and da	te indicated above. The the Site Removal Action
Documents pertainin	g to this surve	y are attached for	review and app	roval by the U.S. EPA.
Signed:				
fel c	loch-			_ Date 8-21-02
Tolow	Mrc/Kng.			(Print Name)
Drewn	PS MAN	ngka		(Print Title)
53		, \$1	'S Consultents, Ltd. clence & Engineering	
The attached Verific		The results o	reviewed by lof this survey ind	J.S. EPA, Region V o licate that the verificatio
Authorization is here	by granted to	commence backfi	l and restoration	work at this excavation
Signed <sub>i</sub>				
Menebs	Simo			Date \$ 21/02
VEENET	n Sinc	<u>~</u>		(Print Name)
On-Scene	Covedi	nator		(Print Name) (Print Title)
For U.S. EPA Region			•	

## Nutrani Gamma Spec Report- 341 East Ohio Street Site

Exclusion Zone Confirmatory Samples for August 21, 2002

Sample	Sample	Sample	Description	Weight	U-238	U-238	Th-232	Th-232	Ra-226	Ru-226	Total Radium	Total Radium
(D	Date	Group			Activity	Uncertainty	Activity	Uncertainty	Activity	Uncertainty	Activity	Uncertainty
741	8/21/02	EPA	S1421 I-J.5/9-12 EPA#1	33.8	-1.93	2.31	1.42	0.68	0.54	0.9	1.96	1.128007092
742	8/21/02	EPA	S1422 I-J.5/9-12 EPA#2	34	4.38	1.62	-0.12	0.45	4	0.64	3.88	0.7823682
743	8/21/02	EPA	S1423 I-J.5/9-12 EPA#3	33.3	-0.94	2.02	0.29	0.61	1.64	0.81	1.93	1.014001972
744	8/21/02	EPA	\$1424  -J.5/9-12 EPA#4			2.15	0.95	0.66	2 19	0.9	3.14	1.116064514
745	8/21/02	EPA	S1425 I-J.5/9-12 EPA#5	33.5	0.22	1.78	0.55	0.52	1.78	0.71	2.33	0.880056815

Average Total Radium (Th-232+Ra-226) Concentration for: I-J.5/9-12 = 2.65 pCi/g

Phase II Sand Samples 5/21/02

Semple ID	Sample Date	Sample Group		Weight	1 1	U-238 Uncertainty	Th-232 Activity	Th-232 Uncertainty	Re-226 Activity	Re-226 Uncertainty	Total Radium Activity	Total Radium Uncertainty
748	8/21/02	EPA Sand	S1428 E-G/11-13	41.5	0.33	1.19	0.19	0.34	0.22	0.45	0.41	0.56400354
747	i	EPA Sand	81427 E-G/13-15	35.8	2.18	1.65	0.63	0.47	D. <b>24</b>	0.63	0.87	0.78600254
748	8/21/02	EPA Send	S1428 E-G/15-17	37.3	-2.18	2.15	-0.89	0.64	3.17	0.93	2.28	1,12893755
749		EPA Sand	S1429 E-G/17-19	34.2	-4.05	1.89	1.18	0.58	0.02	0.77	1.21	0.96400207
750	8/21/02	EPA Sand	\$1430 E-G/19-21	34.4			]	0.66	1.28	0,9	2.02	1.11606451

## STS Consultants, Ltd.

750 Corporate Woods Parkway Vemon Hills, IL 60061 Phone: (847) 279-2500 FAX: (847) 279-2510



9/5/02

## **FACSIMILE TRANSMISSION**

Date:	September 5, 2002
To:	Ms. Verneta Simon or Mr. Fred Micke
Comp	any: United States Environmental Protection Agency (USEPA)
Fax #:	312-353-9176
Pages	being transmitted, incl. Cover: 16
CC:	Fax No.:
From:	Steve Kornder <b>Phone:</b> 847 279-2448
Re:	341 East Ohio Street Project, Chicago, Illinois
Urgen	t Sor Signature For Review Please Comment/Reply As Requested Original to Follow
Messa	ge:
(immun	USEPA letter of July 7, 2002, STS is enclosing sign-off forms and associated pre-verification cassay) and laboratory verification results for your review for the pesticide investigation at the above ced site. Included with this fax are sign-off forms for base of excavation samples F-16, F-18 and H-14, ewall samples I-16, I-18, F-14 and F-21.
Please	feel free to contact us if you have any questions regarding the attached analytical information.
Sincere	ly,
#	h Land
Steve K	omder

**IMPORTANT:** This facsimile is intended only for the of the individual or entity to which it is addressed and may contain information that is privileged, confidential, and exempt from disclosure under applicable law. If the reader of this facsimile is not the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone and return this facsimile to us at the above address via the United States Postal Service. Thank you.

## Chlordane Immunoassay Field Results Summary 341 East Ohio Street

Date:09/3/2002

Sample Location <sup>1</sup>	Sample Date	Time	Sample Type <sup>2</sup>	Chlordane Immunoassay Field Kit <sup>3</sup> (mg/kg)
H-14	08/14/2002	14:30	base	0.000
F-16	08/20/2002	13:00	base	0.007
F-18	08/20/2002	13:10	base	0.084
F-21	08/20/2002	13:40	sidewall	0.874
F-14	08/20/2002	13:20	sidewall	0.719
1-16	08/20/2002	10:45	sidewall	0.486
I-18	08/20/2002	11:00	sidewall	0.008

## Notes:

- 1. Sample location is the center point of the 10 X 10 meter grid for base of excavation samples. The location designation for vertical samples indicates the actual sample location.
- 2 Base Composite sample from the base of the excavation (five grab samples from 100 m2 area). Sidewall - Vertical composite of five grab samples from excavation side wall.
- 3 The chlordane immunoassay kit does not differentiate between chlordane and other cyclodienes such as heptachlor, refer to method documentation for information on the relative sensitivities,

STS ACQUISITIONS CO. dba STS COMS., LTD.

Client Sample ID: I-16

### GC Semivolatiles

Lot-Sample #:	F2H210313-002	Work Order #: E60KELAA	Matrix SOLID
These Promises	00/20/02 10.4C	Data Daradand . 00/21/22	

 Date Sampled...:
 08/20/02 10:45 Date Received..:
 08/21/02

 Prep Date....:
 08/22/02
 Analysis Date..:
 08/26/02

 Prep Batch #...:
 2234216
 Analysis Time..:
 19:13

Dilution Factor: 5

\* Moisture....: 16 Nethod..... SW846 8081A

		reporting	
PARAMETER	RESULT	LIMIT	UNITS
Aldrin	MD	2.0	ug/kg
alpha-BHC	ND	2.0	vg/kg
gamma-BHC (Lindane)	ND	2.0	ug/kg
Chlordane (technical)	68 COL	20	vg/kg
4,4'-DDT	NID	2.0	ug/kg
Dieldrin	5.0	2.0	ug/kg
Heptachlor	3.7	2.0	ug/leg
Heptachlor epoxide	ND	7.9	ug/kg

	PERCENT	RECOVERY
SURROGATE	RECOVERY	LIMITS
Decachlorobiphenyl	0.0 DIL,NC	(50 - 151)
Tetrachloro-m-xylene	0.0 DIL,NC	(64 ~ 131)

#### HOTB(8):

DIL The concentration is unimated or not reported due to dilution or the presence of interfering analyses.

NC The recovery and/or RFD were not calculated.

Results and reporting limits have been adjusted for dry weight.

COL More than 40% difference between gainning and confirmation column reads. The lower of the two centres is reported.

## FORM FOR NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY PESTICIDE

Project Name/Number: 341 East Ohio Street, Chicago, Illinois
Area Identification: I-16 (side wall conjuste)
Date of Verification Survey:
Time of Verification Survey: 10:45
The above-described excavation was sampled for pesticides at the time and date indicated above. The analytical results indicated that all pesticide-impacted soils have been removed as required by the Sit Removal Action Criteria.
Documents pertaining to the pre-verification immunoassay and laboratory results for pesticides are attached for review and approval by the USEPA.
Signed:
Date: 9/3/07
Print Name: Steve C. Kornder
Print Title: Senior Project Geochemist
STS Consultants, Ltd.
The attached Verification Survey documents were reviewed by USEPA, Region 5 of this survey indicate that the pesticide verification criterias discussed in the Amended Removal Action Work Plan (STS, March 2002) and cleanup level contained in 35 IAC 742 Appendix B, Table A for ingestion and inhalation, have been met.
Authorization is hereby granted to commence backfill and restoration work at this excavation.
signed: Verreto Sim
Date: 4/6/02
Print Name: VERNETA SIMON
Print Title: On Scene Covedinator
For USEPA Region 5

#### STS ACQUISITIONS CO. dba STS COMS., LTD.

#### Client Sample ID: F-14

#### GC Semivolatiles

Lot-Sample #...: F2H210313-005 Work Order #...: B60KH1AA Matrix....: SOLID

 Date Sampled...:
 08/20/02 13:20 Date Received..:
 08/21/02

 Prep Date....:
 08/22/02 Analysis Date..:
 08/26/02

 Prep Batch #...:
 2234216 Analysis Time..:
 20:40

Dilution Factor: 5

\* Moisture....: 17 Method.....: SWB46 B081A

		reporting	
PARAMETER	RESULT	LIMIT	Unit9
Aldrin	ND	2.0	ug/kg
alpha-BHC	ND	2.0	ug/kg
gamma-BHC (Lindane)	ND	2.0	ug/kg
Chlordane (technical)	ND	20	ug/ <b>kg</b>
4,4'-DDT	ND	2.0	ug/kg
Dieldrin	ND	2.0	ug/kg
Heptachlor	ND	2-0	ug/kg
Reptachlor epoxide	4.6 J	8-1	ug/kg

	PERCENT	RECOVERY		
SURROGATE	RECOVERY	LIMITS		
Decachlorobiphenyl	0.0 DIL,NC	(50 - 151)		
Tetrachloro-m-xylene	0.0 DIL,NC	(64 - 131)		

#### MOTE(S):

Besults and reporting thinks have been adjusted for dry weight.

Dil. The concentration is estimated or not reported one in dilution or the presence of interfering analyses.

NC. The recovery and/or RPD were not calculated.

J Estimated result. Result is less than RL.

# FORM FOR NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY **PESTICIDE**

Project Name/Number: 341 East Ohio Street, Chicago, Illinois .
Area Identification: F-14 (sidewall composite)
Date of Verification Survey: 8/20/02
Time of Verification Survey:am/em
The above-described excavation was sampled for pesticides at the time and date indicated above. The analytical results indicated that all pesticide-impacted soils have been removed as required by the Site Removal Action Criteria.
Documents pertaining to the pre-verification immunoassay and laboratory results for pesticides are attached for review and approval by the USEPA.
Signed: Thurs Charles
Date: 9/3/02
Print Name: Steve C. Kornder
Print Title: Senior Project Geochemist
STS Consultants, Ltd.
The attached Verification Survey documents were reviewed by USEPA, Region 5 on The results of this survey indicate that the pesticide verification criteria as discussed in the Amended Removal Action Work Plan (STS, March 2002) and cleanup levels contained in 35 IAC 742 Appendix B, Table A for ingestion and inhalation, have been met.
Authorization is hereby granted to commence backfill and restoration work at this excavation.
Authorization is hereby granted to commence backfill and restoration work at this excavation.  Signed:     Commence backfill and restoration work at this excavation.    Commence backfill and restoration work at this excavation.
Date:
Print Name: VERNETA SIMON
Print Title: On Scene Cookdinater
For USEPA Region 5

### STS ACQUISITIONS CO. dba STS COMS., LTD.

Client Sample ID: F-21

## GC Semivolatiles

Lot-Sample #:	F2H210313-004	Work Order #:	B60KG1AA	Matrix:	Solid
Date Sampled:	08/20/02 13:40	Date Received:	08/21/02		
Prep Date:	08/22/02	Analysis Date:	08/26/02		
Prep Batch #:	2234216	Analysis Time:	20:11		
Dilution Factor:					
* Moisture:	19	Method	SW846 8081A		

		reportin	G
PARAMETER	<u>Result</u>	LIMIT	UNITS
Aldrin	ND	2.1	ug/kg
alpha-BHC	ND	2.1	ug/kg
gamma-BHC (Lindane)	ND	2.1	ug/kg
Chlordane (technical)	MD	21	ug/kg
4,4'-DDT	NID	2.1	ug/kg
Dieldrin	NID	2.1	ug/kg
Heptachlor	ND	2.1	ug/kg
Heptachlor epoxide	5.2 J, COL	8.3	ug/kg

	PERCENT	RECOVERY	
SURROGATE	RECOVERY	LIMITS	
Decachlorobiphenyl	0.0 DIL,NC	(50 - 151)	
Tetrachloro-m-xvlene	O.O DIL, NC	(64 - 131)	

Should be

Results and reporting limits have been adjusted for dry weight.

Dil. The concentration is entirested or not reported due to dilution or the presence of interfering mustytes.

NC The recovery and/or RPD were not calculated.

J. Estimated sessit. Result is less than RL.

COL More than 40% difference between primary and confirmation column results. The lower of the two cessits is reported.

# FORM FOR NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY PESTICIDE

Project Name/Number: 341 East Ohio Street, Chicago, Illinois
Area Identification: F-Z/ (sidewall composite)
Date of Verification Survey: 8/20/02
Time of Verification Survey: 1:40 amorn
The above-described excavation was sampled for pesticides at the time and date indicated above. The analytical results indicated that all pesticide-impacted soils have been removed as required by the Site Removal Action Criteria.
Documents pertaining to the pre-verification immunoassay and laboratory results for pesticides are attached for review and approval by the USEPA.
Signed:
Date: 9/3/02
Print Name: Steve C. Kornder
Print Title: Senior Project Geochemist
STS Consultants, Ltd.
The attached Verification Survey documents were reviewed by USEPA, Region 5 or 9/0/02. The results of this survey indicate that the pesticide verification criteria as discussed in the Amended Removal Action Work Plan (STS, March 2002) and cleanup level contained in 35 IAC 742 Appendix B, Table A for ingestion and inhalation, have been met.
Authorization is hereby granted to commence backfill and restoration work at this excavation.
Signed: Verrela Sinon
Date: 9/6/07
Print Name: Varneta Simon
Print Title: On-Scene Codedinator
For USEPA Region 5

0

## STS ACQUISITIONS CO. dba STS COMS., LTD.

## Client Sample ID: F-18

#### GC Semivolatiles

Lot-Sample #:	F2H210313-007	Work Order #: E60KK1AA	Matrix SOLID

 Date Sampled...:
 08/20/02 13:10 Date Received..:
 08/21/02

 Prep Date....:
 08/22/02 Analysis Date..:
 08/26/02

 Prep Batch #...:
 2234216 Analysis Time..:
 21:39

Dilution Factor: 1

\* Moisture....: 17 Method.....: SW846 8081A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aldrin	1.0 J	2.1	vg/kg
alpha-BHC	ND	2.1	ug/kg
gamma-BHC (Lindane)	ND	2.1	ug/kg
Chlordane (technical)	ND	21	ug/kg
4,4'-DDT	ND	., 2,1	ug/log
Dieldrin	ND	2.1	ug/kg
Heptachlor	ND	2.1	ug/kg
Heptachlor epoxide	ND	8.1	ug/kg

	PERCENT	RECOVERY
SURROGATE	RECOVERY	LIMITS
Decachlorobiphenyl	77	(50 - 151)
Tetrachloro-m-xylene	97	(64 - 131)

BOTK(S):

Vant.

Results and reporting firmits have been adjusted for dry weight.

J. Esthented result. Result is less than RL.

# FORM FOR NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY **PESTICIDE**

Project Name/Number: 341 East Ohio Street, Chicago, Illinois
Area Identification:
Date of Verification Survey: 8/20/02
Time of Verification Survey:
The above-described excavation was sampled for pesticides at the time and date indicated above. The analytical results indicated that all pesticide-impacted soils have been removed as required by the Sit Removal Action Criteria.
Documents pertaining to the pre-verification immunoassay and laboratory results for pesticides ar attached for review and approval by the USEPA.
Signed:
Date: 9/3/02
Print Name: Steve C. Kornder
Print Title: Senior Project Geochemist .
STS Consultants, Ltd.
The attached Verification Survey documents were reviewed by USEPA, Region 5 on the Amended Removal Action Work Plan (STS, March 2002) and cleanup level contained in 35 IAC 742 Appendix B, Table A for ingestion and inhalation, have been met.
Authorization is hereby) granted to commence backfill and restoration work at this excavation.
Signed: Velueta Simm
Date: 9/6/02
Print Name: Vereneta Simon
Print Title: On-Scene Cookdinator
For USEPA Region 5

## DATE DATE PROUTE

## STS ACQUISITIONS CO. dba STS COMS., LTD.

#### Client Sample ID: F-16

#### GC Semivolatiles

Lot-Sample #: F2H210313-006 Date Sampled: 08/20/02 13:00 Prep Date: 08/22/02 Prep Batch #: 2234216 Dilution Factor: 1		08/21/02 08/26/02	Matrix: SOLID
† Moisture: 15	Wethod:	SW846 8081	A
		REPORTING	
PARAMETER	RESULT	LIMIT	UNITS
Aldrin	ND	2.0	ug/kg o
alpha-erc	0.59 J,COL	2.0	ug/kg
gamma-BHC (Lindane)	ND	2.0	ug/kg
Chlordane (technical)	ND	20	ug/kg
4,4'-DDT	ND	3.0	ug/kg
Dieldrin	ND	2.0	ug/kg
Heptachlor	ND	2.0	ug/kg
Heptachlor epoxide	NTD	7.8	ug/kg
	PERCENT	RECOVERY	

LIMITS (50 - 151)

(64 - 131)

## DOTE(S):

SURROGATE

Results and reporting Brains have been adjusted for dry weight.

Decachlorobiphenyl Tetrachloro-m-xylene

COL More than 40% difference between primary and confirmation column results. The lower of the two results is reported,

RECOVERY

88

J. Enthunical respit. Result is less than RL.

# FORM FOR NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY **PESTICIDE**

Project Name/Number: 341 East Ohio Street, Chicago, Illinois
Area Identification:
Date of Verification Survey: 8/2402
Time of Verification Survey:ar@m
The above-described excavation was sampled for pesticides at the time and date indicated above. The analytical results indicated that all pesticide-impacted soils have been removed as required by the Site Removal Action Criteria.
Documents pertaining to the pre-verification immunoassay and laboratory results for pesticides are attached for review and approval by the USEPA.
Signed:
Date: 9/3/02
Print Name: Steve C. Kornder .
Print Title: Senior Project Geochemist .
STS Consultants, Ltd.
The attached Verification Survey documents were reviewed by USEPA, Region 5 on . The results of this survey indicate that the pesticide verification criteria as discussed in the Amended Removal Action Work Plan (STS, March 2002) and cleanup levels contained in 35 IAC 742 Appendix B, Table A for ingestion and inhalation, have been met.
Authorization is hereby granted to commence backfill and restoration work at this excavation.
Signed: Velucità Simi
Date: 9/4/02
Print Name: VERNETSIMO
Print Title: On-Scene Covedinator
For USEPA Region 5

STL ST: LOUIS

## STS ACQUISITIONS CO. dba STS COMS., LTD.

Client Sample ID: H-14

## GC Semivolatiles

Lot-Sample #: F2H200218-002	Nork Order #:	E6VCKLAA	Matrix		SOLID
Date Sampled: 08/19/02 14:30	Date Received:	08/20/02			
Prep Date: 08/22/02	Analysis Date	08/26/02			
Prep Batch #: 2234216	Analysis Time:	16:46			
Dilution Factor: 1	•				
* Moisture: 5.4	Method:	SW846 8081	A		
		REPORTING			
PARAMETER	RESULT	LIMIT	Units		
Aldrin	MID	1.8	ug/kg		
alpha-BHC	NID	1.8	ug/kg		
gamma-BHC (Lindane)	ND	1.8	ug/kg		
Chlordane (technical)	NID	18	ug/kg		
4,4'-DDT	ND	1.8	ug/kg		
Dieldrin	ND	1.8	ug/kg		
Heptachlor	ND	1.8	ug/kg		
Reptachlor epoxide	0.70 J,COL	7.1	ug/kg		
	PERCKNT	RECOVERY		•	
SURROGATE	RECOVERY	LIMITS			
Decachlorobiphenyl	100	(50 - 151)			
Tetrachloro-m-xvlene	88	(64 - 131)			

100

Results and reporting limits have been adjusted for dry weight.

COL More than 40% difference between primary and confirmation column results. The lower of the two results is reported.

J. Estimand south, Result is less than RL.

# FORM FOR NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY **PESTICIDE**

Project Name/Number: 341 East Ohio Street, Chicago, Illinois .
Area Identification: H-14
Date of Verification Survey: 3/14/02
Time of Verification Survey: 2-30 and and another
The above-described excavation was sampled for pesticides at the time and date indicated above. The analytical results indicated that all pesticide-impacted soils have been removed as required by the Site Removal Action Criteria.
Documents pertaining to the pre-verification immunoassay and laboratory results for pesticides are attached for review and approval by the USEPA.
Signed:
Date: 9/3/0-
Print Name: Steve C. Kornder
Print Title: Senior Project Geochemist
STS Consultants, Ltd.
The attached Verification Survey documents were reviewed by USEPA, Region 5 or 1/4/6/2
Authorization is hereby granted to commence backfill and restoration work at this excavation.
Signed: Verrela Simon
Date: 9/6/02
Print Name: VERNETA SIMON
Print Title: On Scene Covedinator
For USEPA Region 5

## STE ACQUISITIONS CO. dba STS CONS., LTD.

Client Sample ID: I-18

### GC Semivolatiles

Lot-Sample #: F2H210	0313-003 Work Order #: E6	OKF1AA Matrix SOLID
Date Sampled: 08/20	/02 11:00 Date Received: 08	/21/02
Prep Date: 08/22	/02 Analysis Date: 08	/26/02
Prep Batch #: 223421	16 Analysis Time: 19	:42
Dilution Factor: 5	_	

\* Moisture....; 7.7 Method...... SW846 8081A

		reporting	
PARAMETER	RESULT	LIMIT	UNITS
Aldrin	ND	1.8	ug/kg
alpha-HHC	ND	1.8	ug/kg
gamma-BHC (Lindane)	NID	1.8	ug/kg
Chlordane (technical)	ND	18	ug/kg
4,4'-DDT	ND	1.8	ug/kg
Dieldrin	ND	1.8	ug/kg
Heptachlor	ND	1.8	ug/kg
Heptachlor epoxide	ND	7.3	ug/kg

	PERCENT	rrcovery
SURROGATE	RECOVERY	LIMITS
Decachlorobiphenyl	0.0 DIL,NC	(50 - 151)
Tetrachloro-m-xylene	0.0 DIL,NC	(64 - 131)

Anthrit .

Results and reporting limits have horn adjusted for dry weight.

Dil. The concentration is estimated or not reported due to dilution or the pretence of interfering analyses.

NC The recovery and/or RPD were not calculated.

## FORM FOR NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY PESTICIDE

Project Name/Number: 341 East Ohio Street, Chicago, Illinois
Area Identification: I-18 (side Kull composite)
Date of Verification Survey: 8/20/02
Time of Verification Survey:am/off)
The above-described excavation was sampled for pesticides at the time and date indicated above. The analytical results indicated that all pesticide-impacted soils have been removed as required by the Site Removal Action Criteria.
Documents pertaining to the pre-verification immunoassay and laboratory results for pesticides are attached for review and approval by the USEPA.
Signed:
Date: 9/3/02
Print Name: Steve C. Kornder .
Print Title: Senior Project Geochemist
STS Consultants, Ltd.
The attached Verification Survey documents were reviewed by USEPA, Region 5 on The results of this survey indicate that the pesticide verification criteria as discussed in the Amended Removal Action Work Plan (STS, March 2002) and cleanup levels contained in 35 IAC 742 Appendix B, Table A for ingestion and inhalation, have been met.
Authorization is hereby granted to commence backfill and restoration work at this excavation.
Signed: Veriche Sins
Date: 9/4/02
Print Name: VERNETA SIMON
Print Title: On-Scene Councination
For USEPA Region 5



PHONE:

(312) 353-2318



## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION 5 EMERGENCY RESPONSE BRANCH

Mail Code: SE-5J

## FACSIMILE COVER PAGE

FAX: (312) 353-9176
DATE: 9/6/02
TO: Stell Kornder
ORGANIZATION STS
FAX NUMBER: (847)279-2510
FROM: Vereneta Simon .
SUBJECT: 341 EAST Ohid
NUMBER OF PAGES TO FOLLOW (INCLUDING COVER SHEET): 8
I-18 F-21 H-14
I-16 F-18
- I-14 F16





#### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION 5

## EMERGENCY RESPONSE BRANCH Mail Code: SE-5J

#### FACSIMILE COVER PAGE

FAX:	(312) 353-9176	
DATE 9/4/07		
TO Steve K		
ORGANIZATION.	STS	
FAX NUMBER:	(847)279-2510	
FROM: <u>Veren</u> e		_
SUBJECT: 341 T	•	
	S TO FOLLOW AND LUDING COVER SHEETS. 8	
I-18	F-21 H-14	
7-16	F-18	
- T-14	F16	

F16

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TECH TEST

SEP-06-02 07:38 ID:3123532034

## STS Consultants, Ltd.

750 Corporate Woods Parkway Vernon Hills, IL 80061 Phone: (847) 279-2500 Fax: (847) 279-2510



## **FACSIMILE TRANSMISSION**

Date: 8-8-02	Pages being transn	nitted, Incl. Cover: 6
To:	Company Name:	Fax No.:
VERNETA Simo	N USEPH	312 353 9176
		·
From: John And	PERSON 5.7.5 Phon 341 E. Ottio	3/2-755-6022
Re: J-MO	341 E. Otio	•
For Review Pi	ease Comment/Reply As Requested	<b>⊠</b> For Signature
Message:		
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### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION 5

#### EMERGENCY RESPONSE BRANCH Mail Code: SE-5J

#### FACSIMILE COVER PAGE

PHONE:

(312) 353-2318 (312) 353-9176

DATE: 8/9/02	<u> </u>
TO John Andresen	
ORGANIZATION. STS	
FAX NUMBER: (312) 755-662 2	
FROM: VERNETA SIMON .	
SUBJECT: Arreal, Phase II Final	

NUMBER OF PAGES TO FOLLOW UNCLUDING COVER SHEETS: 4

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## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY **REGION 5**

## **EMERGENCY RESPONSE BRANCH** Mail Code: SE-5J

## FACSIMILE COVER PAGE

FAX: (312	2) 353-9176
DATE: 8/9/07	
TO: John And	lepson
ORGANIZATIONST	<u>-</u> S
FAX NUMBER: (3	12) 755-6622
FROM: VERNETO	+ Simon .
SUBJECT: Area /	, Phase II Final
NUMBER OF PAGES TO I MESSAGE:	FOLLOW (INCLUDING COVER SHEET): 4
A-B,15-	21
E-G, 1-3	, >
6-1,1-	15

(312) 353-2318

Area Identification: A-B, 15-21 AREA I	PHASA STINA
Date of Verification Survey: 8-8-02	:
Time of Verification Survey /:30 Pm	am/pm
The above-described excavation was surveyed at the time and survey indicated that all soils have been removed as required b Criteria.	
Documents pertaining to this survey are attached for review and a	pproval by the U.S. EPA.
Signed:	
for lid	Date 8.8-02
John Andreson	(Print Name)
RACONUS MINNAJAN	(Print Title)
STS Consultants, Ltd Solutions through Science & Engineerin	
The attached Verification Survey documents were reviewed by SIGIC2. The results of this survey criterial as contained in the UAO; have been met.	
Authorization is hereby granted to commence backfill and restorat	ion work at this excavation
Signed: / Vernes Sinos	Date 8/9/02
VERNETA SIMO	(Print Name)
On- Scrne Coordinator	(Print Title)
For U.S. EPA Region V	

Area Identification: 6-Z 1-15	
Date of Verification Survey: 8-8-02	•
Time of Verification Survey	am/pm
The above-described excavation was surveyed at the time and survey indicated that all soils have been removed as required b Criteria.	date indicated above. The y the Site Removal Action
Documents pertaining to this survey are attached for review and a	pproval by the U.S. EPA.
Signed:	
for list	Date <u>8-8-02</u>
Joth Andreson	(Print Name)
RACONUS MINNOJAN	(Print Title)
978 Consultants, Lt. Solutions through Science & Engineeric	
The attached Verification Survey documents were reviewed by The results of this survey criteria as contained in the UAO, have been met.	y U.S. EPA, Region V o indicate that the verificatio
Authorization is hereby granted to commence backfill and restorate	tion work at this excavation
Authorization is hereby granted to commence backfill and restorated.  Signed:  Signed:	tion work at this excavation  Date   G   G
Signed: Vernebr Simn	
Signed: Vernebr Simo	Date \$   9   6 2

Area Identification: £-6,1-3	
Date of Verification Survey: 8-8-02	
Time of Verification Survey	am/pm
The above-described excavation was surveyed at the survey indicated that all soils have been removed as Criteria.	e time and date indicated above. The required by the Site Removal Action
Documents pertaining to this survey are attached for re	eview and approval by the U.S. EPA.
Signed:	
for line	Date 8-8-02
LACONUS MANAGER	(Print Name)
RACONUS MANNEYAR	(Print Title)
Solutions through Scien	Consultants, Ltd.
The attached Verification Survey documents were results of criteria as contained in the UAO; have been met.	eviewed by U.S. EPA, Region V on this survey indicate that the verification
Authorization is hereby granted to commence backfill a	and restoration work at this excavation
Signed Simm	Date <u>8/9/62</u>
Verneta Simin	
On Scene Coordinator	(Print Title)
For U.S. EPA Region V	

## Nutrani Gamma Spec Report- 341 East Ohio Street Site

Phase II Sand Samples for August 8, 2002

Bample	Sam ple	Sample	Description	Weight	U-238	U-238	Th-232	Th-232	Ra-226	Ra-228	Total Radium	Total Racitum
ID	Date	Group		1 1	Activity	Uncertainty	Activity	Uncertainty	Activity	Uncertainty	Activity	Uncertainty
		EPA									-	
692	8/8/02	Send _	S1390 A-B/15-21	33.1	-0.93	2.45	-0.08	0.73	1.37	1	1.29	1.23810338
		EPA		Ы								or other transport from the state of the sta
693	8/8/02	Send	S1391 E-G/1-3	33.5	1.65	2.73	0.67	0.79	1.68	1.07	2.35	1.33003759
		EPA										
594	8/8/02		S1392 G-1/1-3	31.7	0.77	2.38	-0:48	0.7	1.53	0.96	1.05	1.18810773
		EPA										
695	6/8/02		81393 G-1/3-5	32.7	-1.54	2.42	0.47	0.7	0.7	0.95	1.17	1.18004237
		EPA			5 40							
696	8/8/02	Send	S1394 G-1/5-7	33.5	-0.46	2.37	-0.64	D.88	1.84	0.99	1	1.20104121
907	200.000	EPA	CASOE C ICI D	22.7		0.05	4 8-5					4 45556455
697	8/8/02	EPA	S1395 G-1/7-9	32.7	-1	2.95	1.55	0.68	0.72	1.16	2.27	1.45602197
698	BIBING	Send	S1396 G-l/9-11	33.9	0.93	2.95	1.55	0.83	-0.41	4 47	1.14	4 20402205
	00102	EPA	301000 0-110-11	<del></del>	V.83	2.50	1.00	U. D3	-0.41	1.12	1. 144	1.39402285
988	8/8/02	Send	81397 G-1/11-13	34.4	-3.59	1.73	0.04	0.53	0.83	0.72	0.87	0.89403579
		EPA				1.70	0.07	0.00	0.00	V.12		0.00-10007
700	8/8/02	Sand	81398 G-I/13-15	35.1	-8, 28	2.27	1.05	0.7	0.5	0.93	1.55	1.16400171
		EPA	<u> </u>	1								
701	8/8/02	Sand	\$1399 G-15 clary	39.7	7.12	3.29	1.19	0.92	3.48	1.21	4.65	1.52003289

## STS Consultants, Ltd.

750 Corporate Woods Parkway Vernon Hills, IL 60061 Phone: (647) 279-2500 Fax: (847) 279-2510

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Ro: 6-MO - 34	E. OHIO	
For Review Please Co	omment/Reply 🔲 As Req	wested For Signature
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Exclusion 2	ZONAS AT W	A-A.5, 2.5-3.5
	(3) E-F, 13.5-1	

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Area Identification: #-B, 1-15 ALAM	I, Phone II	final
Date of Verification Survey: 8-7-02		
Time of Verification Survey 2:007	0	_am/pm
The above-described excavation was surveyed at the survey indicated that all soils have been removed as reCriteria.		
Documents pertaining to this survey are attached for revi	ew and approval by the	U.S. EFA.
Signed:	Date <sup>5</sup>	7-8-02
of Verification Survey  2:007  above-described excavation was surveyed at the time and indicated that all soils have been removed as required in its.  I would be a survey are attached for review and indicated that all soils have been removed as required in its survey are attached for review and indicated.  STS Consultant Solutions through Science & Engineering in the CAO, have been met.  Indicated that all soils have been met.  STS Consultant Solutions through Science & Engineering in the UAO, have been met.  Prization is hereby granted to commence backfill and rest and in the UAO, have been met.  On-Scene Coordinates		nt Name)
RECORDS MANAYAN	(P	rint Title)
Authorization is hereby granted to commence backfill an	d restoration work at th	is excavatio
Signed: ) Verressa Sinon	Date _	8/8/02
VERNET Simon	(Pri	/ / nt Name)
On-Scene Coordinater	(P	rint Title)
For U.S. EPA Region V		

Area Identification: E-F, 1-2.5	
Date of Verification Survey: 8-7-02	
Time of Verification Survey 2:00?	/pm
The above-described excavation was surveyed at the time and date indicated ab survey indicated that all soils have been removed as required by the Site Remov Criteria.	ove. The
Documents pertaining to this survey are attached for review and approval by the U.S.	s. EPA.
Signed:	<b>"</b> -~? ?
Date 8-8	
Tolla Andreson (Print Na	me)
RECORDS MANAGER (Print T	ïtle)
STS Consultents, Ltd. Solutions through Science & Engineering	<del></del>
The attached Verification Survey documents were reviewed by U.S. EPA, Regi	ion V ∈ erificatic
criteria as contained in the UAO, have been met.	
Authorization is hereby granted to commence backfill and restoration work at this ex	cavatio
Signed:  January Simor Date 8/8	1/12
Vernetz Simon (Print Na	me)
On-Scene Coordinator - (Print T	itle)
For U.S. EPA Region V	

Area Identification: E-F, 13.5-15	
Date of Verification Survey: 8-7-02	9
Time of Verification Survey 2:00 Pm	am/pm
The above-described excavation was surveyed at the survey indicated that all soils have been removed as Criteria.	e time and date indicated above. The required by the Site Removal Action
Documents pertaining to this survey are attached for re	view and approval by the U.S. EPA.
Signed:	Date 8-8-02
Tolla Anderson	(Print Name)
Records MANNYAN	(Print Title)
STS C Solutions through Scient	Consultants, Ltd. ce & Engineering
The attached Verification Survey documents were received. The results of the criteria as contained in the UAO, have been met.	eviewed by U.S. EPA, Region V on his survey indicate that the verification
Authorization is hereby granted to commence backfill a	nd restoration work at this excavatio
Signed:   Simin	Date $\frac{5}{6}$
Verneta Simon	(Print Name)
On-Scene Covedinator	(Print Title)
For U.S. EPA Region V	,

Area Identification: H-T, 8-10	
Date of Verification Survey: 8-7-02	
Time of Verification Survey 2:007	am/pm
The above-described excavation was surveyed at the time survey indicated that all soils have been removed as required Criteria.	and date indicated above. The ired by the Site Removal Action
Documents pertaining to this survey are attached for review	and approval by the U.S. EPA.
Signed:	
	Date <u>8-8-02</u>
Leconos Mannyan	(Print Name)
RECORDS MANNYAN	(Print Title)
STS Consult Solutions through Science & Er	•
The attached Verification Survey documents were review	red by U.S. EPA, Region V curvey indicate that the verification
Authorization is hereby granted to commence backfill and re	storation work at this excavatio
Signed Signed Signed	Date <u>8/8/12</u>
Verneta Simon	(Print Name)
On-Scene Coordinator	(Print Title)
For U.S. EPA Region V	

Area Identification: A-A.5, 2.5-3.5	
Date of Verification Survey: 8-7-02	
Time of Verification Survey 2:00 Pm	am/pm
The above-described excavation was surveyed at the time and of survey indicated that all soils have been removed as required by Criteria.	
Documents pertaining to this survey are attached for review and ap	proval by the U.S. EPA.
Signed:	Date 8-8-02
Lecoros Munnyan	(Print Name)
Leconos MANNORA	(Print Title)
STS Consultants, Ltd. Solutions through Science & Engineering	
The attached Verification Survey documents were reviewed by The results of this survey is criteria as contained in the UAO, have been met.	U.S. EPA, Region V condicate that the verification
Authorization is hereby granted to commence backfill and restoration	on work at this excavatio
Signed;	
Jeinela Simon	Date <u>8/8/८2</u>
Vecnera Simon	(Print Name)
On-Scene Coordinate	(Print Title)
For U.S. EPA Region V	

## Nutrani Gamma Spec Report- 341 East Ohio Street Site

Exclusion Zone Confirmatory Samples for August 7, 2002

Sample	Sample	Sample	Description	Weight	U-238	U-288	Th-232	Th-232	Re-226	Re-226	Total Radium	Total Redium
ID	Date	Group			Activity	Uncertainty	Activity	Uncertainty	Activity	Uncertainty	Activity	Uncertainty
566	8/7/02	EPA	A-A,5/2.5-3.5 EPA #1	27.2	-1.14	1.73	1.12	0.51	1.49	0.68	2.61	0.85
687	8/7/02	EPA	A-A.5/2.5-3.5 EPA #2	26.6	0.04	3.08	7.74	0.88	2.45	1.12	10.19	1,424359505
668	8/7/02	EPA	A-A 5/2.5-3.5 EPA #3	25.4	2.14	2.22	1.61	0.65	2.02	0.85	3.63	1.070046726
669	8/7/02	EPA	A-A.5/2.5-3.5 EPA #4	25.B	-2.26	2.38	1.22	0.71	1.96	0.95	3.2	1.186001686
670	8/7/02	EPA	A-A.5/2.5-3.5 EPA #5	25.4	-1.45	2.31	2.17	0.69	1.62	0.89	3.79	1.128143883
Averaç	e Total	Radium	(Th-232+Ra-226)	Сопсе	ntration for		A-A.5/	2.5-3.5 =		4.68	pCi/g	a produce de la constitución de la

Sample	Sample	Sample	Description	Weight	<b>บ-238</b>	n-538	Th-232	11-212	Ra-228	Ra-226	Total Radium	Total Radium
נס	Date	Group			Activity	Uncertainty	Activity	Uncertainty	Activity	Uncertainty	Activity	Uncertainty
875	8/7/02	EPA	E-F/1-2.5 EPA #1	36	0.3	2.22	-0.04	0.65	0.22	0.87	0.18	1.086001842
B76	8/7/02	EPA	E-F/1-2.5 EPA #2	34.9	-2.57	2.85	0.93	0.85	0.45	1.12	1.38	1.406022759
677	8/7/02	EPA	E-F/1-2.5 EPA #3	34.2	3.24	1.45	-0.35	0.41			1.22	0.702139587
678	8/7/02	EPA	E-F/1-2.5 EPA #4	34.5	3.81	2.78	0.31	0.7B	-0.28	1.08	0.03	1.308013761
879	8/7/02	EPA	E-F/1-2.5 EPA #5	34.7	0.45	2.35	0.18	0.72	2.07	1.01	2.25	1.24036295
Averag	e Total	Radium	(Th-232+Ra-226)	Conce	ntration for	L	E-F/1-	2.5 =	L	1.01	pCi/g	<u> </u>

Sample	Sample	Sample	Description	Weight	U-238	U-258	Th-232	Th-232	Ra-226	Ra-276	Total Radium	Total Radium
lD	Date	Group			Activity	Uncertainty	Activity	Uncertainty	Activity	Uncertainty	Activity	Uncertainty
682	8/7/02	EPA	E-F/13.5-15 EPA#1	34.7	2.79	1.59	0.89	0.45	2.3	0.61	2.99	
683	8/7/02	EPA	E-F/13.5-15 EPA#2	32.5	-1.7	1.43	1.51	0.42	0.57	0.55	2.08	0.692026011
684	8/7/02	EPA	E-F/13.5-15 EPA/3	32.4	0.81	1.81	1.42	0.52	1	0.7	2.42	0.872009174
865	8/7/02	EPA	E-F/13.5-15 EPA#4	33.2	0.36	2.07	1.77	0.58	1.21	0.7B	2.98	0.97800818
686	6/7/02	EPA	E-F/13.5-15 EPA/15	32.5	0.71	2.18	1.2	0.52	2.18	0.85	3.38	1.052093162
Averag	e Total	Radium	(Th-232+Ra-226)	Conce	ntration for		E-F/13	3.5-15 =		2.77	pCi/g	

Sample ID	Bampie Øate	Sample Group	Description	Weight	U-238 Activity	U-238 Uncertainty	Th-232 Activity	Th-232 Uncertainty	Re-226 Activity		Total Radium Activity	Total Radium Uncertainty
687	6/7/02	EPA	H-1/8-10 EPA#1	34.6	4.59	2.04	0.07	0.58	0.41	0.77	0.46	0.95210293
688	8/7/02	EPA	H-1/8-10 EPA#2	33.7	2.32	1.91	0.17	0.55	0.5	0.75	0.67	0.93005376
689	8/7/02	EPA	H-1/8-10 EPA#3	34.2	2.77	1.73	-0.21	0.5	1.6	0.7	1.39	0.86023252
680	8/7/02	EPA	H-I/B-10 EPA#4	34.1	0.85	1.55	0.19	0.45	0.77	0.6	0.98	0.7
691	8/7/02	EPA	H-I/8-10 EPA#5	32.1	0.34	1.81	0.03	0.52	0.79	0.71	0.82	0.88005681
Averaç	e Total	Radium	(Th-232+Ra-226	) Conce	entration for	•	H-1/8-1	10 =		0.86	pCi/g	
Averag	e i otal	Radium	1 (1n-232+Ra-226	Conce	entration for		M-1/8-	10 ≈		U.86	pUl/g	

Phase II Sand Samples 8/7/02

Sample	Sample	Sample	Description	Weight	U-238	U-238	Th-232	Th-232	Ra-228		Total Radium	Total Radium
iD	Date	Group			Activity	Uncertainty	Activity	Uncertainty	Activity	Uncertainty	Activity	Uncertainty
		EPA										
671	8/7/02	Send	S1386 A-B/1-4	30.8	-3.43	1.92	0.25	0.5	0.85	0.87	0.9	0.836002392
		EPA										
872			S1387 A-B/4-8	31.3	0.87	1.9	0.27	0.54	0.69	0.74	0.96	0.916078599
	(	EPA			6						6	
673			S1388 A-B/8-12	36.1	2.89	2.08	0.23	0.58	0.64	0.8	0.87	0.968129546
		EPA										
674	8/7/02	Send	S1389 A-B/12-15	38.5	-0.49	2.38	0.66	0.68	0.69	0.93	1.57	1.152085086





## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION 5

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FAX:

(312) 353-9176

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DATE: 8/8/02		
TO: John Anderson		
ORGANIZATION STS		
FAX NUMBER: (312) 755		
FROM: VERNELS SIME		
SUBJECT: Verification Fo		
NUMBER OF PAGES TO FOLLOW (II MESSAGE:	NCLUDING COVER SHEET):	pour
E.F/1-2.5	A-B/1-4	AB/12-15
E-F/13.5-15 H-1/8-10	A-13/4-8	A-A-5/2.5-3.5
4-1/8-10	A-B/8-12	

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PHONE:

(312) 353-2318 (312) 353-9176

DATE: 8/8/02
TO: John Anderson
ORGANIZATION: STS
FAX NUMBER: (312) 755-6022
FROM: VEYENED SIMED
SUBJECT: Verification Forms

# STS Consultants, Ltd.

750 Corporate Woods Parkway Vernon Hills, IL 60061 Phone: (847) 279-2500 Fax: (847) 279-2510



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PHONE:

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FAX:

(312) 353-9176

DATE: 8/15/02
TO: John Andreson
ORGANIZATION STS Consultants
FAX NUMBER: (3/2) 755-6022
FROM: VERNER Simon.
SUBJECT: ARRAI, Phase I Final G-I 15-20
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FAX:

chn Andresch

ORGANIZATION STS Consultants (3/2) 755-6022 FAX NUMBER:

FROM VERNER SIMEN SUBJECT: ARMJ, Phase I Final G-I 15-20

NUMBER OF PAGES TO FOLLOW (INCLUDING COVER SHEED). 2 MESSAGE:

Area Identification: 6-1, 15-20 ARAM	10000
Date of Verification Survey: 8-14-02	Finnl
Time of Verification Survey 2:00 mm	am/pm
The above-described excavation was surveyed at the time and date survey indicated that all soils have been removed as required by the Criteria.	
Documents pertaining to this survey are attached for review and appro	val by the U.S. EPA
Signed:	
fall lit	Date 8-14-02
Tota Andreson Pricers Mongre	(Print Name)
Pricers Monngan	(Print Title)
STS Consultants, Ltd. Salutions through Science & Engineering	
The attached Verification Survey documents were reviewed by U.	
Criteria as contained in the UAO, have been met.	
8/5/2 . The results of this survey indices	eate that the verificatio
Criteria as contained in the UAO, have been met.	eate that the verificatio
Criteria as contained in the UAO, have been met.  Authorization is hereby granted to commence backfill and restoration signed:  **The results of this survey indicates the contained of the contained of the UAO, have been met.  **Authorization is hereby granted to commence backfill and restoration of the contained of the containe	vork at this excavation
The results of this survey indic criteria as contained in the UAO, have been met.  Authorization is hereby granted to commence backfill and restoration visiting.	vork at this excavation  Date 5/5/62

Page 4

yernganon Burvey Procedury, 203-1

Nutran	Gamma	Spec Report- 341	Rest C	hio Str	eet Site						
EPA Send	Samples f	or 8/14/02									
Sample	Sample	Description	Weight	U-238	U-200	Th-232	Th-232	Ra-226	No-226	Total Radium	Total Radium
Date	Group			Activity	Uncertainty	Activity	Uncertainty	Activity	Uncertainty	Activity	Uncertainty
		G-I/15-17.5	35.2	2.09	1.35	-0.3	0.38	0.66	0.52	0.30	0.84404989
8/14/02	EPA Send	G-1/ 17.5-20	34.7	-1.1	2.08	0.36	0.6	0.11	0.79	0.47	0.982018145
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	EPA Sand Sample Date 8/14/02	EPA Sand Samples 1 Sample Sample Date Group 8/14/02/EPA Sand	EPA Sand Samples for 8/14/02  Sample Sample Description  Data Group  8/14/02/EPA Sand   G-I/ 15-17.5	EPA Sand Samples for 8/14/02  Sample Sample Description Weight  Date Group  8/14/02 EPA Sand   G-I/15-17.5 35.2	EPA Sand Samples for 8/14/02  Sample Sample Description Weight U-238  Date Group Activity  8/14/02/EPA Sand   G-I/15-17.5 36.2 2.09	Sample   Description   Weight U-238   U-258   Deta   Group   Activity Uncertainty   8/14/02 EPA Sand   G-I/ 15-17.5   35.2   2.09   1.35	EPA Sand Samples for 8/14/02  Sample Sample Description Weight U-288 U-28 Th-232  Data Group Activity Uncertainty Activity 8/14/02 EPA Sand   G-I/15-17.5 35.2 2.09 1.35 -0.3	EPA Sand Samples for 8/14/02  Sample Sample Description Weight U-28 U-28 Th-232 Th-232  Date Group Activity Uncertainty Activity Uncertainty 8/14/02 EPA Sand   G-I/15-17.5 35.2 2.09 1.35 -0.3 0.38	EPA Sand Samples for 8/14/02  Sample Sample Description Weight U-28 U-28 Th-232 Th-232 Re-226  Date Group Activity Uncertainty Activity Uncertainty Activity 8/14/02 EPA Sand G-I/ 15-17.5 35.2 2.09 1.35 -0.3 0.38 0.68	EPA Sand Samples for 8/14/02  Sample Sample Description Weight U-288 U-289 Th-232 Th-232 Ra-226 Ra-226  Data Group Activity Uncertainty Activity Uncertainty 8/14/02 EPA Sand   G-I/15-17.5   35.2  2.09   1.35  -0.3   0.38   0.69   0.52	EPA Sand Samples for 8/14/02  Sample Sample Description Weight U-28 U-29 Th-232 Th-232 Ra-226 Ra-226 Total Radium  Date Group Activity Uncertainty Unc

A

Project Name/Number: 341 East Ohio Street, Chicago, Illinois

# FORM FOR NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY PESTICIDE

Area Identification: I - 6 (side wall composite)
Date of Verification Survey: 8/2/02
Time of Verification Survey: Z:40 amon
The above-described excavation was sampled for pesticides at the time and date indicated above. The analytical results indicated that all pesticide-impacted soils have been removed as required by the Site Removal Action Criteria.
Documents pertaining to the pre-verification immunoassay and laboratory results for pesticides are attached for review and approval by the USEPA.
Signed:
Date: 8/19/02
Print Name: Steve C. Kornder
Print Title: Senior Project Geochemist .
STS Consultants, Ltd.
The attached Verification Survey documents were reviewed by USEPA, Region 5 or The results of this survey indicate that the pesticide verification criteria as discussed in the Amended Removal Action Work Plan (STS, March 2002) and cleanup levels contained in 35 IAC 742 Appendix B, Table A for ingestion and inhalation, have been met.
Authorization is hereby granted to commence backfill and restoration work at this excavation.
Signed: Vanda Simm
Print Name: VERN CAR Simon
Print Title: On-Scene Courdinator
For USEPA Region 5

# FORM FOR NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY **PESTICIDE**

Project Name/Number: 341 East Ohio Street, Chicago, Illinois
Area Identification:
Date of Verification Survey: 8/2/02
Time of Verification Survey: 2:30 am/pm
The above-described excavation was sampled for pesticides at the time and date indicated above. The analytical results indicated that all pesticide-impacted soils have been removed as required by the Site Removal Action Criteria.
Documents pertaining to the pre-verification immunoassay and laboratory results for pesticides are attached for review and approval by the USEPA.
Signed:
Date: 4/19/0 2
Print Name: Steve C. Kornder
Print Title: Senior Project Geochemist .
STS Consultants, Ltd.
The attached Verification Survey documents were reviewed by USEPA, Region 5 or The results of this survey indicate that the pesticide verification criteria as discussed in the Amended Removal Action Work Plan (STS, March 2002) and cleanup levels
contained in 35 IAC 742 Appendix B, Table A for ingestion and inhalation, have been met.
Authorization is hereby/granted to commence backfill and restoration work at this excavation.
Signed: Verreto Sini
Date: 8/20/02
Print Name: VERNERS Since
Print Title: On Scene Council nature
For USEPA Region 5

# FORM FOR NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY PESTICIDE

Project Name/Number: 341 East Onio Street, Chicago, Illinois
Area Identification: I-4 (sidewall composite)
Date of Verification Survey: 8/2/0 2
Time of Verification Survey: 2:3.5 ampin
The above-described excavation was sampled for pesticides at the time and date indicated above. The analytical results indicated that all pesticide-impacted soils have been removed as required by the Site Removal Action Criteria.
Documents pertaining to the pre-verification immunoassay and laboratory results for pesticides are attached for review and approval by the USEPA.
Signed: Machine Charles
Date: 8/19/07_
Print Name: Steve C. Kornder
Print Title: Senior Project Geochemist .
STS Consultants, Ltd.
The /attached Verification Survey documents were reviewed by USEPA, Region 5 or \$\frac{1}{20}\sqrt{6}\sqrt{2}\$. The results of this survey indicate that the pesticide verification criteria as discussed in the Amended Removal Action Work Plan (STS, March 2002) and cleanup levels contained in 35 IAC 742 Appendix B, Table A for ingestion and inhalation, have been met.
Authorization is hereby granted to commence backfill and restoration work at this excavation.
Signed: Name Simon
Date: 8/20/12
Print Name: Vereneta Simon
Print Title: On-Scene Goodinate
For USEPA Region 5



# STS Consultants, Ltd.

750 Corporate Woods Parkway Vernon Hills, IL 60061 Phone: (847) 279-2500 FAX: (847) 279-2510

# **FACSIMILE TRANSMISSION**

Date:	August 19, 2002		
To:	Ms. Vemeta Simon or Mr. Fr	ed Micke	
Compa	ny: United States Enviro	onmental Protection Agency	(USEPA)
Fax #:	312-353-9176		
Pages b	eing transmitted, incl. Cov	er. 9	
CC:	100	Fax No.:	· · · · · · · · · · · · · · · · · · ·
From:	Steve Kornder	Phone:	847 279-2448
Re:	341 East Ohio Street F	Project, Chicago, Illinois	•
☐ Urgent	☐ For Signature ☐ For Revie	W Please Comment/Reply	As Requested Original to Follow
Messag	je:		
(immuno	assay) and laboratory verificated site. Included with this fax	ation results for your review f	ms and associated pre-verification for the pesticide investigation at the above all samples collected at grid designations I-2,
Please fe	eel free to contact us if you ha	ave any questions regarding	the attached analytical information.
Sincerely	the Land		

**IMPORTANT:** This facsimile is intended only for the of the individual or entity to which it is addressed and may contain information that is privileged, confidential, and exempt from disclosure under applicable law. If the reader of this facsimile is not the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone and return this facsimile to us at the above address via the United States Postal Service. Thank you.

# Chlordane Immunoassay Field Results Summary 341 East Ohio Street

# Date:08/19/2002

Sample Location <sup>1</sup>	Sample Date	Time	Şample Type <sup>2</sup>	Chlordane Immunoassay	
1-2	08/02/2002	14:30	sidewall	0.009	
1-4	08/02/2002	14:35	sidewall	0.246	
I-6	08/02/2002	14:40	sidewall	0.246	
	0,000,000	17.70	- Old Civilia	9.2-10	

### Notes:

- 1- Sample location is the center point of the 10 X 10 meter grid for base of excavation samples. The location designation for vertical samples indicates the actual sample location.
- 2 Base Composite sample from the base of the excavation (five grab samples from 100 m2 area). Sidewall - Vertical composite of five grab samples from excavation side wall.
- 3 The chlordane immunoassay kit does not differentiate between chlordane and other cyclodienes such as heptachlor, refer to method documentation for information on the relative sensitivities.



**STL St. Louis** 13715 Rider Trail North Earth City, MO 63045

Tet 314 298-8566 Fax 314 298 8757 www.sti-inc.com

# ANALYTICAL REPORT

REVISED

Waste Characterization

Lot #: F2H050168

Rich Berggreen

STS Acquisitions Co. 750 Corporate Woods Farkway Vernon Hills, IL 60061

SEVERN TRENT LABORATORIES, INC.

Project Manager

August 16, 2002

STL St. Louis is a part of Severn Trent Laboratories, Inc.

# STS ACQUISITIONS CO. dba STS COMS., LTD.

# Client Sample ID: I-6

## GC Semivolatiles

Date Sampled:       08/02/         Prep Date:       08/08/         Prep Batch #:       222022         Dilution Factor:       20	Apalysis Time	08/03/02 08/10/02 04:14	Matrix: SOLID
* Moisture: 18	Method;	SW846 8081	A
PARAMETER	result	REPORTING LIMIT	UNITS
Heptachlor	49	42	
<del>-</del>	· •	<del></del>	ug/kg
Heptachlor epoxide	ND	42	ug/kg
Aldrin	ND	42	ug/kg
Chlordane (technical)	ND	420	ug/kg

42

42

ug/kg

ug/kg

4,4'-DDT	NTO	42 ug/kg
Dieldrin	ND	42 ug/kg
	PERCENT	RECOVERY
SURROGATE	RECOVERY	LIMITS
Tetrachloro-m-xylene	0.0 DIL	(57 - 116)
Decachlorobiphenyl	0.0 DIL	(45 - 147)

ND

ND

# NOTE (S):

alpha-BHC

gamma-BHC (Lindane)

DIL The concentration is estimated or not reported that is dilution or the presence of interfering analyses. Results and reporting limits have been adjusted for dry weight.

0

# STS ACQUISITIONS CO. dba STS COMS., LTD.

# Client Sample ID: I-2

## GC Semivolatiles

Lot-Sample #: F2H050168-001 Date Sampled: 08/02/02 14:30 Prep Date: 08/08/02 Prep Batch #: 2220226		08/03/02 08/12/02	Matrix: SOLID
Dilution Factor: 20 * Moisture: 17	Nethod:	SW846 8081	A
PARAMETER	RESULT	REPORTING LIMIT	UNITS
Heptachlox	ND	41	ug/kg
Heptachlor epoxide	ND	41	ug/kg
Aldrin	ND	41	ug/kg
Chlordane (technical)	ND	410	ug/kg
alpha-BHC	ND	41	ug/kg
gamma-BHC (Lindane)	ND	41	ug/kg
4,4'-DDT	ND	41	ug/kg
Dieldrin	ND	41	ug/kg
	PERCENT	RECOVERY	•
SURROGATE	RECOVERY	LIMITS	
Tetrachloro-m-xylene	0.0 DIL	(57 - 116)	
Decachlorobiphenyl	0.0 DIL	(45 - 147)	

and the second

## HOTE(S):

**4**<sub>1|1</sub>, ₹

Nicipal !

Dil. The concentration is estimated or not reported due to dilution or the presence of interfering analyses.

Results and reporting limits have been adjusted for dry weight.

# STS ACQUISITIONS CO. dba STS CORS., LTD.

## Client Sample ID: I-4

# GC Semivolatiles

Lot-Sample #...: F2H050168-002 Work Order #...: E5XM8LAA Matrix.....: SOLID

and the second

 Date
 Sampled...:
 08/02/02
 14:35
 Date
 Received...:
 08/03/02

 Prep
 Date...:
 08/08/02
 Analysis
 Date...:
 08/10/02

 Prep
 Batch
 #...:
 2220226
 Analysis
 Time...:
 03:55

Dilution Factor: 20

\* Moisture....: 15 Method.....: SW846 8081A

		REPORTIN	G	
PARAMETER	RESULT	LIMIT	units	
Heptachlor	ND	40	ug/kg	
Heptachlor epoxide	ND	40	ug/kg	,
Aldrin	ND	40	ug/kg	
Chlordane (technical)	ND	400	ug/kg	
alpha-BHC	ND	40	ug/kg	
gamma-RHC (Lindane)	ND	40	ug/kg	
4,4'-DDT	ND	40	ug/kg	
Dieldrin	ND	40	ug/kg	

	Percent	RECOVERY
SURROGATE	RECOVERY	LIMITS
Tetrachloro-m-xylene	0.0 DIL	(57 - 116)
Decachlorobiphenyl	0-0 DIL	(45 - 147)

### EXYPR(S):

Dil. The concentration is estimated or not reported due to dilution or the presence of interfering analyses.

Results and reporting limits have been adjusted for dry weight.

0

# STS Consultants, Ltd.

750 Corporate Woods Parkway Vernon Hills, IL 60061 Phone: (847) 279-2500 Fax: (847) 279-2510

View?



# **FACSIMILE TRANSMISSION**

Date: 8-/-02	Pages being transmi	Itted, Incl. Cover:
To:	Company Name:	Fax No.:
VERNETA SiMON	USEPA	312-353-917
From: John Andan,	son 5.8.5. Phone	312-755-6022
	Comment/Reply	For Signature
Message:	· · · · · · · · · · · · · · · · · · ·	
AREA I,	, PHASE II FINA	4
	ano.	
Exclusion	ZONA AT H-19	

EMPORTANT: This faceimile is intended only for the use of the individual or entity to which it is addressed and may contain information that is privileged, confidential, and exempt from disclosure under applicable law. If the reader of this teastmile is not the intended recipient, you are hereby notified that any discermination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone and return this faceimile to us at the above address via the United States Postal Service. Thank you.

Area Identification:	E-6,	3-7	ARKA	I	PHASE IL Fish
Date of Verification Su	rvey:	3-1-0	2		
Time of Verification Su	irvey $\underline{\mathscr{B}}$	:00 m			am/pm
					e indicated above. The Site Removal Action
Documents pertaining	to this surve	y are attach	ed for review	and appro	oval by the U.S. EPA.
Signed:				,	
feh A	Maria	<u> </u>	· · · · · · · · · · · · · · · · · · ·		Date 8-1-02
Jelta A.	relanse				(Print Name)
Recones	Mon	AGUR			(Print Title)
SS		Salutions th	STS Consult rough Science & En	•	·
The attached Verifica	tion Survey	documents	were review	ved by U	S. EPA, Region V cate that the verification
criteria as contained in	the UAO, h	ave been me	et.		
Authorization is hereby	y granted to	commence t	packfill and re	storation	work at this excavation
Signed,	Simon				Date <u>8/1/63</u>
Veeneta	Simon	·			(Print Name)
On-Scene					(Print Title)
For U.S. EPA Region	<b>v</b> .				

Area Identification: $B-C$ , $16-2$	ARAA I PHASH IT FINA
Date of Verification Survey:	
Time of Verification Survey 8:00	am/pm
	rveyed at the time and date indicated above. The removed as required by the Site Removal Actions in the second sec
Documents pertaining to this survey are a	ittached for review and approval by the U.S. EPA
Signed:	
Joh Andorse	Date 8-1-0
Totto Andreson Records Monkeye	(Print Name)
RECORDS MANAGE	(Print Title)
<u>ES</u>	STS Consultants, Ltd.  riions through Science & Engineering
The attached Verification Survey documents of the Control of the UAO, have be	ments were reviewed by U.S. EPA, Region Vine results of this survey indicate that the verification met.
Authorization is hereby granted to comme	ence backfill and restoration work at this excavati
Signed: Jemels Sinn	Date 8/2/6>
Vernetz Simon	(Print Name)
On-Scene Cookdin	19 (Print Title)

Area Identification: E-C, 7-11 ARRA I, PHOSA II Fina
Date of Verification Survey: 8-1-02
Time of Verification Survey 8:00 m am/pm
The above-described excavation was surveyed at the time and date indicated above. The survey indicated that all soils have been removed as required by the Site Removal Action Criteria.
Documents pertaining to this survey are attached for review and approval by the U.S. EPA.
Signed:
John Anologia Date 8-1-02
JoHN Anchenson " (Print Name)
Records Monegue (Print Title)
STE Consultants, Ltd. Solutions through Science & Engineering
The attached Verification Survey documents were reviewed by U.S. EPA, Region V c  Criteria as contained in the UAO, have been met.
Authorization is hereby granted to commence backfill and restoration work at this excavatio
Signed: 1
Merreto Simon Date 8/2/02
Verneta Simon Date 8/2/C2 Verneta Simon (Print Name)  On-Scene Cooldinator (Print Title)

Area Identification: 4-19 5mmpl45 1-5	
Date of Verification Survey: 8-1-02	
Time of Verification Survey 8:00	am/pm
The above-described excavation was surveyed at the time and date is survey indicated that all soils have been removed as required by the Criteria.	
Documents pertaining to this survey are attached for review and approva	al by the U.S. EPA.
Signed:	
John Andrews	Date 8-1-02
Telta Andreson Records Monague	_ (Print Name)
RECORDS MONAGER	(Print Title)
	,
STS Consultants, Ltd. Solutions through Science & Engineering	
STS Consultants, Ltd.	EPA Region V c
STS Consultants, Ltd. Solutions through Solution & Engineering  The attached Verification Survey documents were reviewed by U.S.	EPA, Region V c te that the verificatic
Solutions through Solutions & Engineering  The attached Verification Survey documents were reviewed by U.S.  The results of this survey indicate criteria as dontained in the UAO, have been met.  Authorization is hereby granted to commence backfill and restoration working signed:	EPA, Region V cate that the verification ork at this excavation
The attached Verification Survey documents were reviewed by U.S.  The results of this survey indicate criteria as dontained in the UAO, have been met.  Authorization is hereby granted to commence backfill and restoration working the survey indicate the survey indicate criteria as dontained in the UAO, have been met.	EPA, Region V content the verification of the third excavation.  Date 9/2/02-
Solutions through Solutions & Engineering  The attached Verification Survey documents were reviewed by U.S.  The results of this survey indicate criteria as dontained in the UAO, have been met.  Authorization is hereby granted to commence backfill and restoration working signed:	EPA, Region V content the verification ork at this excavation  Date 5/2/02- (Print Name)

Area Identification: B-C, 12-16 Anna	I PHOSE II
Date of Verification Survey: 8-1-02	FINAL
Time of Verification Survey 8:00 m	am/pm
The above-described excavation was surveyed at the time and date survey indicated that all soils have been removed as required by the Criteria.	
Documents pertaining to this survey are attached for review and appro	val by the U.S. EPA.
Signed:	
John Anologian	Date 8-1-02
Jothn Andreson	(Print Name)
Records Mondala	(Print Title)
STS Consultants, Ltd. Solutions through Science & Engineering	
STS Consultants, Ltd. Solutions through Science & Engineering  The attached Verification Survey documents were reviewed by U.S.  Daluz The results of this survey indices.	
Solutions through Science & Engineering  The attached Verification Survey documents were reviewed by U.S.	
STS Consultants, Ltd. Solutions through Science & Engineering  The attached Verification Survey documents were reviewed by U.S.  Daluz The results of this survey indices.	ate that the verificatic
STS Consultants, Ltd. Solutions through Science & Engineering  The attached Verification Survey documents were reviewed by U.S.  The results of this survey indic criteria as contained in the UAO, have been met.	ate that the verificatic
Solutions through Science & Engineering  The attached Verification Survey documents were reviewed by U.S.  The results of this survey indice criteria as contained in the UAO, have been met.  Authorization is hereby granted to commence backfill and restoration verification.	ate that the verification
The attached Verification Survey documents were reviewed by U.S.  Solutions through Science & Engineering  The attached Verification Survey documents were reviewed by U.S.  The results of this survey indice criteria as contained in the UAO, have been met.  Authorization is hereby granted to commence backfill and restoration verification.  Signed:  Signed:	vork at this excavatio

# Nutrani Gamma Spec Report- 341 East Ohio Street Site

Exclusion Zone Confirmatory Samples for August 1, 2002

Sample	Sample	Sample	Description	Weight	U-238	U-228	Th-232	Th-232	Ra-226	Ra-226	Total Radium	Total Radium
ID	Date	Group		1	Activity	Uncertainty	Activity	Uncertainty	Activity	Uncertainty	Activity	Uncertainty
644	8/1/02	EPA	S1352 H-19 EPA#1	24.5	3,64	2.5	0.83	0.69	1.2	0.95	2.03	1.174137982
645	8/1/02	EPA	S1353 H-19 EPA#2	31.2	-0.52	1.97	2.45	0.57	0.72	0.74	3.17	0.934077085
846	8/1/02	EPA	S1354 H-19 EPA#3	30.6	2.77	2.07	0.96	0.59	2.76	0.62	3.74	1.010198
647	8/1/02	EPA	S1355 H-19 EPA#4	33.3	-1.95	1.95	1.96	0.6	1.4	0.79	3.36	0.992018145
648	8/1/02	EPA	S1356 H-19 EPA#5	31.7	-1.53	1.81	1.83		0.72	0.69	2.55	0.876184912

Average Total Radium (Th-232+Ra-226) Concentration for: H - 19 =

2.97 pCi/g

Phase II Sand Samples

Sample	Sample	Sample	Description	Weight	U-236	U-238	Th-232	Th-232	Re-226	Ra-226	Total Radium	Total Radium
	Date	Group		1	Activity	Uncertainty	Activity	Uncertainty	Activity	Uncertainty	Activity	Uncertainty
		EPA										
640	8/1/02	Sand	S1348 B-C/12-16	30.2	4.14	2.5	-0.41	0.71	1.63	0.97	1.22	1.202081528
		EPA			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							
541	8/1/02	Sand	S1349 B-C/16-21	27.8	0.8	1.67	-0.21	0.47	<u>.</u> . 1.1j	0.88	0.89	0.610246876
		EPA	1							,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
642	8/1/02	Sand	S1350 E-G/3-7	30.6	1.43	1.62	-0.22	0.46	1.84	0.64	1.62	0.78816242
,		EPA		• 1						•		
643	8/1/02	Send	S1351 E-G/7-11	33.7	0.73	1.74	0.4	0.52	1.12	0.71	1.52	0.880056816



PHONE:

FAX:

(312) 353-2318

(312) 353-9176



# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION 5

# EMERGENCY RESPONSE BRANCH Mail Code: SE-5J

# **FACSIMILE COVER PAGE**

DATE: 8/2/02
, ,
TO: John Anderson
ORGANIZATION STS Consultants
FAX NUMBER: 312/755-6022
FROM: VERNETA SIMON .
SUBJECT: Successful Verification Forms
NUMBER OF PAGES TO FOLLOW (INCLUDING COVER SHEET): 6  MESSAGE:
Area Î, Phase II B-C, 12-16 E-G, 3-17 B-C, 16-21 E-G, 7-11
B-C, 12-16 6-9,3-1
B-C, 16-21

My pager # 888-616-3085 or call the USEPA 24-he # (312) 353-2318 and ask them to page me, too! Normally, if I am in pager runge, I will return a call in a 15 min max. Generalse, call the Zehret.

Have A great, weekend!

THE INFORMATION CONTAINED IN THIS FAX IS INTENDED FOR THE RECIPIENT ONLY

### \*\*\* TRANSMISSION REPORT \*\*\*

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LAST SUCCESSFUL PAGE

GEPA



# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION 5

## EMERGENCY RESPONSE BRANCH Mail Code: SE-5J

## FACSIMILE COVER PAGE

PHONE:

(312) 353-2318 (312) 353-9176

DATE: 8/2/02	·
10: John Anderson	_0
ORGANIZATION STS Consultants	
FAX NUMBER: 312/755-6022	
FROM VERNETA SIMON	
SUBJECT: Successful VERIFICATION FORMS	
NUMBER OF PAGES TO FOLLOW (INCLUDING COVER SHEET): 6 MESSAGE:	
Area I, Phase II	
Area I, Phase II B-C, 12-16 E-G, 3-7 B-C, 16-21 E-G, 7-11	

My pager # 888-616-3085 or call the USEPA 24-het.

(312) 363-2318 and ask them to page me, too! Normally,

If I am in pager earnge, I will return a call in a 15 min max.

Generwise, call the 24 het.

Have A great weekend!

THE INFORMATION CONTAINED IN THIS LAN IS INTENDED FOR THE RECIPIENT ONLY

# STS Consultants, Ltd.

750 Corporate Woods Parkway Vernon Hills, IL 60061 Phone: (847) 279-2500 FAX: (847) 279-2510

Steve Kornder



# **FACSIMILE TRANSMISSION**

Date:	August 19, 2002			
To:	Ms. Verneta Simon or Mr. Fred	Micke		0
Comp	arry: United States Environ	mental Protection Agency	USEPA)	
Fax #:	312-353-9176			
Pages	being transmitted, incl. Cover	. 7		
CC:		Fax No.:		
From:	Steve Komder	Phone:	847 279-2448	
Re:	341 East Ohio Street Pro	oject, Chicago, Illinois		
☐ Urger	nt For Signature For Review	Please Comment/Reply	As Requested	Original to Follow
Messa	age:			
(immun referen	USEPA letter of July 7, 2002, S loassay) and laboratory verificati ced site. Included with this fax a feel free to contact us if you have	on results for your review f re sign-off forms for grid a	or the pesticide inv rea designations H	estigation at the above -4 and H-8.
Sincere	•	o any quoesta regarding		
1	the			

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# Chlordane Immunoassay Field Results Summary 341 East Ohio Street

Date:08/19/2002

Sample Location <sup>1</sup>	Sample Date	Time	Sample Type <sup>2</sup>	Chlordane Immunoassay
H-4	08/01/2002	13:30	base	0.004
H-8	08/01/2002	13:40	base	0.009
				Ö

### Notes:

- 1- Sample location is the center point of the 10 X 10 meter grid for base of excavation samples.
  The location designation for vertical samples indicates the actual sample location.
- 2 Base Composite sample from the base of the excavation (five grab samples from 100 m2 area). Sidewall Vertical composite of five grab samples from excavation side wall.
- 3 The chlordane immunoassay kit does not differentiate between chlordane and other cyclodianes such as heptachlor, refer to method documentation for information on the relative sensitivities.



STL St. Louis 13715 Rider Treit North Earth City, MO 63045

Tel 314 298 8566 Fax 314 298 8757 WWW.SB-inc.com

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# **ANALYTICAL REPORT**

REVISED

Waste Characterization

Lot #: F2H020131

Rich Berggreen

STS Acquisitions Co. 750 Corporate Woods Parkway Vermon Hills, IL 60061

SEVERN TRENT LABORATORIES, INC.

Annual Control of the Control

Project Manager

August 16, 2002

STL St. Louis is a part of Severn Trent Laboratories, Inc.

Market.

 $\tau_{\|\cdot\|_{B(\overline{q})}} \mathcal{Y}$ 

# STS ACQUISITIONS CO. dba STS COMS., LTD.

# Client Sample ID: H-4

### GC Scaivolatiles

Lot-Sample #: F2H020131-001	Work Order #: E5R4G1AA	Matrix SOLID
Date Sampled: 08/01/02 13:30	Date Received: 08/02/02	
Prep Date: 08/05/02	Analysis Date: 08/10/02	
Prep Batch #: 2217113	Analysis Time: 02:40	
Dilution Factor: 20		
* Moisture: 3.6	Method SW846 80812	<b>L</b>

	REPORTING	
RESULT	<u>Linit</u>	Units
ND	35	ug/kg
ND	35	ug/kg g
ND	35	ug/kg
ND	350	ug/kg
ND	35	ug/kg
ND	35	ug/kg
ND	35	ug/kg
MD	35	ug/kg
	NID NID NID NID NID NID	RESULT         LINIT           NID         35           NID         35           NID         350           NID         35           NID         35           NID         35           NID         35           NID         35           NID         35

	PERCENT	RECOVERY
SURROGATE	RECOVERY	<u>Limi</u> ts
Tetrachloro-m-xylene	O.O DIL	(57 - 116)
Decachlorobiphenyl	0.0 DIL	(45 - 147)

## NOTE(S):

DIL The concentration is essimated or not reported due to dilution or the presence of interfering unadyses.

Results and reporting limits have been adjusted for dry weight.

\_

0

# STS ACQUISITIONS CO. dba STS COMS., LTD.

## Client Sample ID: H-8

### GC Semivolatiles

Lot-Sample #...: F2H020131-002 Work Order #...: R5R4JlAA Matrix......: SOLID

 Date Sampled...:
 08/01/02 13:40 Date Received...:
 08/02/02

 Prep Date....:
 08/05/02 Analysis Date...:
 08/10/02

 Prep Batch #...:
 2217113 Analysis Time...:
 02:59

Dilution Factor: 20

\* Moisture....: 3.5 Method....: SW846 8081A

		reporting	
PARAMETER	<u>result</u>	<u>Limit</u>	UNITS
Heptachlor	NID	35	ug/kg
Heptachlor epoxide	ND	35	ug/kg
Aldrin	ND	35	ug/kg
Chlordane (technical)	ND	350	ug/kg
alpha-BHC	ND	35	ug/kg
gamma-BHC (Lindane)	MD	35	ug/kg
4,4'-DDT	ND	35	ug/kg
Dieldrin	ND	35	ug/kg

	PERCENT	RECOVERY
SURROGATE	RECOVERY	LIMITS
Tetrachloro-m-xylene	0.0 DIL	(57 - 116)
Decachlorobiphenyl	0.0 DIL	(45 - 147)

### MEYER (S) :

1 Helph

Dil. The concentration is estimated or not reported due to dilution or the presence of interfering authors.

Results and reporting limits have been adjusted for dry weight.

# FORM FOR NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY PESTICIDE

Project Name/Number: 341 East Ohio Street, Chicago, Illinois
Area Identification: #- #
Date of Verification Survey: 8/01/02
Time of Verification Survey:am/em
The above-described excavation was sampled for pesticides at the time and date indicated above. The analytical results indicated that all pesticide-impacted soils have been removed as required by the Site Removal Action Criteria.
Documents pertaining to the pre-verification immunoassay and laboratory results for pesticides are attached for review and approval by the USEPA.
Signed:
Date: 8/19/02
Print Name: Steve C. Kornder
Print Title: Senior Project Geochemist
STS Consultants, Ltd.
The attached Verification Survey documents were reviewed by USEPA, Region 5 on 35 lacks of this survey indicate that the pesticide verification criteria as discussed in the Amended Removal Action Work Plan (STS, March 2002) and cleanup levels contained in 35 IAC 742 Appendix B, Table A for ingestion and inhalation, have been met.
Authorization is hereby granted to commence backfill and restoration work at this excavation.
Signed: White 5. Sim
Signed: White 5 Sim  Date: 8/20/07
Print Name: Veneta J Simon
Print Title: On Scene Covedingtor
For USEPA Region 5

# FORM FOR NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY **PESTICIDE**

Project Name/Number: 341 East Ohio Street, Chicago, Illinois
Area Identification: H-8
Date of Verification Survey: 8/1/02
Time of Verification Survey: 1:40am/6m
The above-described excavation was sampled for pesticides at the time and date indicated above. The analytical results indicated that all pesticide-impacted soils have been removed as required by the Site Removal Action Criteria.
Documents pertaining to the pre-verification immunoassay and laboratory results for pesticides are attached for review and approval by the USEPA.
Signed: The South
Date:
Print Name: Steve C. Kornder
Print Title: Senior Project Geochemist
STS Consultants, Ltd.
The attached Verification Survey documents were reviewed by USEPA, Region 5 on The results of this survey indicate that the pesticide verification criteria as discussed in the Amended Removal Action Work Plan (STS, March 2002) and cleanup levels contained in 35 IAC 742 Appendix B, Table A for ingestion and inhalation, have been met.
Authorization is hereby granted to commence backfill and restoration work at this excavation.
Signed: Veniche Sinus
Date: 8/20/02
Print Name: Veenety Simon  Print Title: On-Scene Cookdinater
Print Title: On-Scene Cookedingtee
For USEPA Region 5

# STS Consultants, Ltd.

750 Corporate Woods Parkway Vernon Hills, IL 60061 Phone: (847) 279-2500 FAX: (847) 279-2510



# **FACSIMILE TRANSMISSION**

	gust 19, 2002 s. Verneta Simon or Mr. Fred Micke
Company	r. United States Environmental Protection Agency (USEPA)
Fax #:	312-353-9176
Pages bein	ng transmitted, incl. Cover: 9
CC:	Fax No.:
From:	Steve Kornder Phone: 847 279-2448
Re:	341 East Ohio Street Project, Chicago, Illinois
(immunoas referenced note that the excavation	EPA letter of July 7, 2002, STS is enclosing sign-off forms and associated pre-verification say) and laboratory verification results for your review for the pesticide investigation at the above site. Included with this fax are sign-off forms for grid area designations F-8, H-10 and H-12. Please e lab results for the H-6 sample exceeded the clean-up objective for heptachlor at H-6. Additional has been performed at H-6 and a subsequent immunoassay analysis conducted on 8/13/02 (lab currently pending).
Please feel	free to contact us if you have any questions regarding the attached analytical information.
Sincerely,	
Sincerely,	

**IMPORTANT:** This facsimile is intended only for the of the individual or entity to which it is addressed and may contain information that is privileged, confidential, and exempt from disclosure under applicable law. If the reader of this facsimile is not the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. It you have received this communication in error, please notify us immediately by telephone and return this facsimile to us at the above address via the United States Postal Service. Thank you.

# Chlordane Immunoassay Field Results Summary 341 East Ohio Street

Date:08/19/2002

Sample Location <sup>1</sup>	Sample Date	Time	Sample Type <sup>2</sup>	Chlordane Immunoassay
F-8	07/31/2002	8:30	base	0.005
H-6	07/31/2002	8:45	base	1.48
H-10	07/31/2002	9:15	base	0.157
H-12	07/31/2002	9:45	base	0.804

### Notes:

- 1- Sample location is the center point of the 10 X 10 meter grid for base of excavation samples. The location designation for vertical samples indicates the actual sample location.
- 2 Base Composite sample from the base of the excavation (five grab samples from 100 m2 area). Sidewall Vertical composite of five grab samples from excavation side wall.
- 3 The chlordane immunoassay kit does not differentiate between chlordane and other cyclodienes such as heptachlor, refer to method documentation for information on the relative sensitivities.

25585002 Pesticide Results



SFL St. Louis 13715 Rider Trail North Earth City, MO 63045

Tel 314 298 8566 Fax 314 298 8757 www.sti-inc.com

# **ANALYTICAL REPORT**

REVISED

Waste Characterization

Lot #: F2H010233

Rich Berggreen

STS Acquisitions Co. 750 Corporate Woods Parkway Vermon Hills, IL 60061

SEVERN TREAT LABORATORIES, INC.

For ' John D. Powell Project Manager

August 16, 2002

111-146-7

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## STS ACQUISITIONS CO. dba STS COMS., LTD.

## Client Sample ID: F-8

### GC Semivolatiles

Lot-Sample #: P2H010233-001 Date Sampled: 07/31/02 08:30 Prep Date: 08/02/02 Prep Batch #: 2214119 Dilution Factor: 20	Date Received: Analysis Date: Analysis Time:	08/01/02 08/08/02 02:28	Matrix SOLID
* Moisture; 5.2	Method:	SW846 8081	A
		REPORTING	
PARAMETER	RESULT	LIMIT	UNITS
Heptachlor	ND	36	ug/kg
Heptachlor epoxide	ND	36	ug/kg
Aldrin	ND	36	ug/kg
Chlordane (technical)	MD	360	ug/kg
alpha-BHC	ND	36	ug/kg
gamma-BHC (Lindane)	ND	36	ug/kg
4,4'-DDT	ND	36	ug/kg
Dieldrin	ND	36	ug/kg
			<i>•</i>

PERCENT

RECOVERY

0.0 DIL

0.0 DIL

RECOVERY

(57 - 116)

(45 - 147)

LIMITS

NOTE (S) :

SURROGATE

Tetrachloro-m-xylene

Decachlorobiphenyl

DIL The concentration is entirested or not reported due to dilution of the presonn of intertering analyses.

Results and reporting limits have been adjusted for day weight.

# STS ACQUISITIONS CO. dba STS COMS., LTD.

Client Sample ID: H-10

# GC Semivolatiles

Lot-Sample #: Date Sampled:				Watrix: SOLID
Prep Date:	08/02/02	Analysis Date:	08/08/02	
Prep Batch #:	2214119	Analysis Time:	03:06	
Dilution Factor:	20			
* Moisture:	19	Method:	SW846 8081A	

		REPORTING		
PARAMETER	<u>result</u>	<u>LINIT</u>	UNITS	0
<b>Heptachlor</b>	ND	42	ug/kg	
Heptachlor epoxide	ND	42	ug/kg	
Aldrin	ND	42	ug/kg	
Chlordane (technical)	MD	420	ug/kg	
alpha-BHC	ND	42	ug/kg	
gamma-BHC (Lindane)	<b>MD</b>	42	ug/kg	
4,4'-DDT	ND	42	ug/kg	
Dieldrin	ND	42	ug/kg	

	PERCENT	RECOVERY
SURROGATE	RECOVERY	LIMITS
Tetrachloro-m-xylene	0.0 DIL	(57 - 116)
Decachlorobiphenyl	O.C DIL	(45 - 147)

White !

DIL The commentation is estimated or not reported due to dilution or the presence of interfering analysis.

Results and reporting limits have been adjusted for dry weight.

#### STS ACQUISITIONS CO. dba STS COMS., LTD.

#### Client Sample ID: H-12

#### GC Smmivolatiles

Tet C	**************************************		25 1
Lot-Sample #: F2H010233-004		_	Matrix SOLID
Date Sampled: 07/31/02 09:45	Date Received:	08/01/02	
Prep Date: 08/02/02	Analysis Date:	08/08/02	
Prep Batch #: 2214119	Analysis Time	03:25	
Dilution Factor: 20	_		
* Moisture: 12	Method:	SW846 80817	•
		REPORTING	
PARAMETER	result	LIMIT	UNITS
Heptachlor	MD	39	ug/kg
Heptachlor epoxide	ND		ug/kg
Aldrin	NID	39	ug/kg
Chlordane (technical)	NED	390	ug/kg
alpha-BHC	NID "	39	ug/kg

39

39

39

ug/kg

ug/kg

ug/kg

	PERCENT	RECOVERY
SURROGATE	RECOVERY	LIMITS
Tetrachloro-m-xylene	0.0 DIL	(57 - 116)
Decachlorobiphenyl	0.0 DIL	(45 - 147)

ND

ND

ND

#### HOTE (S):

The Mary P

4,4'-DDT

Dieldrin

gamma-BHC (Lindane)

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for day weight.

# FORM FOR NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY **PESTICIDE**

Project Name/Number: 341 East Ohio Street, Chicago, Illinois .
Area Identification: H-12
Date of Verification Survey: 7/3//02
Time of Verification Survey: 9:45 and/pm
The above-described excavation was sampled for pesticides at the time and date indicated above. The analytical results indicated that all pesticide-impacted soils have been removed as required by the Site Removal Action Criteria.
Documents pertaining to the pre-verification immunoassay and laboratory results for pesticides are attached for review and approval by the USEPA.
Signed:
Date: 8/19/02
Print Name: Steve C. Kornder
Print Title: Senior Project Geochemist
STS Consultants, Ltd.
The attached Verification Survey documents were reviewed by USEPA, Region 5 or Survey indicate that the pesticide verification criteric as discussed in the Amended Removal Action Work Plan (STS, March 2002) and cleanup level contained in 35 IAC 742 Appendix B, Table A for ingestion and inhalation, have been met.
Authorization is hereby granted to commence backfill and restoration work at this excavation.
Signed: Denets Sim
Date: 8/20/02
Print Name: VERNEL Simon
Print Title: On-Scene Courdington
For USEPA Region 5

# FORM FOR NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY **PESTICIDE**

Project Name/Number: 341 East Ohio Street, Chicago, Illinois
Area Identification:
Date of Verification Survey: 7/31/0 Z
Time of Verification Survey: 8:30 and/pm
The above-described excavation was sampled for pesticides at the time and date indicated above. The analytical results indicated that all pesticide-impacted soils have been removed as required by the Site Removal Action Criteria.
Documents pertaining to the pre-verification immunoassay and laboratory results for pesticides are attached for review and approval by the USEPA.
Signed:
Signed:
Print Name: Steve C. Kornder
Print Title: Senior Project Geochemist .
STS Consultants, Ltd.
The attached Verification Survey documents were reviewed by USEPA, Region 5 on Society of this survey indicate that the pesticide verification criteria as discussed in the Amended Removal Action Work Plan (STS, March 2002) and cleanup levels contained in 35 IAC 742 Appendix B, Table A for ingestion and inhalation, have been met.
Authorization is hereby granted to commence backfill and restoration work at this excavation.
Signed: Vernet Sima
Date: 8/20/02
Print Name: VERNETA Simon
Print Title: On-Scene Coordinatue
For USEPA Region 5

i hagali<sup>1</sup>

# FORM FOR NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY **PESTICIDE**

Project Name/Number: 341 East Ohio Street, Chicago, Illinois
Area Identification: #-10
Date of Verification Survey: 7/31/02
Time of Verification Survey: 9:15 and/pm
The above-described excavation was sampled for pesticides at the time and date indicated above. The analytical results indicated that all pesticide-impacted soils have been removed as required by the Site Removal Action Criteria.
Documents pertaining to the pre-verification immunoassay and laboratory results for pesticides are attached for review and approval by the USEPA.
Signed:
Signed:
Print Name: Steve C. Komder
Print Title: Senior Project Geochemist
STS Consultants, Ltd.
The attached Verification Survey documents were reviewed by USEPA, Region 5 or Survey indicate that the pesticide verification criteric as discussed in the Amended Removal Action Work Plan (STS, March 2002) and cleanup levels contained in 35 IAC 742 Appendix B, Table A for ingestion and inhalation, have been met.
Authorization is hereby granted to commence backfill and restoration work at this excavation.
Signed: Verrieta Sinn
Date: 8/34/02
Print Name: VERNETA SIMON
Print Title: On- Scene Cookdinater
For USEPA Region 5

0



6/19/02

### STS Consultants, Ltd.

750 Corporate Woods Parkway Vernon Hills, IL 60061 Phone: (847) 279-2500 FAX: (847) 279-2510

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#### **FACSIMILE TRANSMISSION**

Company:	United States Environme	ental Protection Agency	(USEPA)
ах #:	312-353-9176		
ages being	transmitted, incl. Cover:	9	
ж:		Fax No.:	
rom:	Steve Komder	Phone:	847 279-2448
	Steve Kornder  341 East Ohio Street Proje		847 279-2448
Re:	341 East Ohio Street Proje		
Message: Per the USEI	341 East Ohio Street Proje  For Signature For Review  PA letter of July 7, 2002, STS ay) and laboratory verification	Please Comment/Reply  S is enclosing sign-off for results for your review	0
Re: Urgent   Wessage: Per the USEI immunoassageferenced si	341 East Ohio Street Project For Signature For Review PA letter of July 7, 2002, STS ay) and laboratory verification te. Included with this fax are	Please Comment/Reply  S is enclosing sign-off for results for your review a sign-off forms for grid a	As Requested Original to Follow  rms and associated pre-verification for the pesticide investigation at the above

**EMPORTANT:** This facsimile is intended only for the of the individual or entity to which it is addressed and may contain information that is privileged, confidential, and exempt from disclosure under applicable law. If the reader of this facsimite is not the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone and return this facsimile to us at the above address via the United States Postal Service. Thank you.

## Chlordane Immunoassay Field Results Summary 341 East Ohio Street

Date:08/19/2002

Sample Location <sup>1</sup>	Sample Date	Time	Sample Type <sup>2</sup>	Chlordane Immunoassay Field Kit³ (mg/kg)
F-4-VP	07/26/2002	14:30	base	0.534
F-6-VP	07/26/2002	14:35	base	0.437
F-10-VP	07/26/2002	14:50	base	0.068
		·····		

#### Notes:

New!

- 1- Sample location is the center point of the 10 X 10 meter grid for base of excavation samples. The location designation for vertical samples indicates the actual sample location.
- 2 Base Composite sample from the base of the excavation (five grab samples from 100 m2 area).Sidewall Vertical composite of five grab samples from excavation side wall.
- 3 The chlordane immunoassay kit does not differentiate between chlordane and other cyclodienes such as heptachlor, refer to method documentation for information on the relative sensitivities.



STL St. Lewis 13715 Rider Trail North Earth City, MO 63045

Tel 314 298 8566 Fex 314 298 8757 www.st-inc.com

### **ANALYTICAL REPORT**

REVISED

Waste Characterization

Lot #: P2G310222

Rich Berggreen

STS Acquisitions Co. 750 Corporate Woods Farkway Vermon Hills, IL 60061

SEVERN TRENT LABORATORIES, INC.

ar ' John D. Powell Project Manager

August 16, 2002

STL St. Louis is a part of Severn Trent Laboratories, Inc.

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DIDDE SID MED

### STS ACQUISITIONS CO. dba STS COMS., LTD.

Client Sample ID: P4-VP

#### GC Semivolatiles

Lot-Sample #: F2G310222-001 Work Order #: E5M441AA Matrix SOI	Lot-Sample #	F2G310222-001	Work Order	B: E5M441AA	Matrix	SOLID
---	--------------	---------------	------------	-------------	--------	-------

 Date Sampled...:
 07/26/02 14:30 Date Received..:
 07/31/02

 Prep Date.....:
 08/01/02 Analysis Date..:
 08/08/02

 Prep Batch #...:
 2213116 Analysis Time..:
 01:05

Dilution Factor: 20

\* Moisture....: 10 Method.....: SW846 8081A

		REPORTING	3
PARAMETER	result_	LIMIT	UNITS
Heptachlor	ND	38	ug/kg
Heptachlor epoxide	ND	38	ug/kg
Aldrin	ND	38	ug/kg
Chlordane (technical)	ND	380	ug/kg
alpha-BKC	MD	38	ug/kg
gamma-BHC (Lindane)	ND	38	ug/kg
4,4'-DDT	ND	38	ug/kg
Dieldrin	ND	38	ug/kg

	PERCENT	RECOVERY
SURROGATE	RECOVERY	<u>Linits</u>
Tetrachloro-m-xylene	0.0 DIL	(57 - 116)
Decachlorobiphenyl	0.0 DIL	(45 - 147)

#### NOTE (S) :

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Regules and reporting limits have been adjusted for dry weight.

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#### STE ACQUISITIONS CO. dba STS COMS., 1/m.

Client Sample ID: F6-VP

#### GC Semivolatiles

Lot-Sample #:	F2G310222-002	Work Order #:	<b>ESM5M1.AA</b>	Matrix SOLID
Date Sampled:	07/26/02 14:30	Date Received:	07/31/02	
	4 4			

 Prep Date....:
 08/01/02
 Analysis Date..:
 08/08/02

 Prep Batch #...:
 2213116
 Analysis Time..:
 01:24

Dilution Factor: 20

\* Moisture....: 10 Method.....: SW846 8081A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Heptachlor	ND	38	ug/kg
Heptachlor epoxide	NID	38	ug/kg
Aldrin	NID	38	ug/kg
Chlordane (technical)	ЯD	380	ug/kg
alpha-BHC	ND	38	ug/kg
gamma-BHC (Lindane)	NO	38	ug/kg
4,4'-DDT	MD:	38	ug/kg
Dieldrin	<i>100</i>	38	ug/kg

	PERCENT	RECOVERY
SURROGATE	RECOVERY	LIMI2S
Tetrachloro-m-xylene	שום ס.ס	(ST - L16)
Decachlorobiphenyl	C.O DIL	(45 - 147)

#### BOTK(S):

DIL. The concentration is estimated or not reported due to filturion or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

### STE ACQUISITIONS CO. dba STS COMS., LTD.

Client Sample ID: P10-VP

#### GC Semivolatiles

Lot-Sample #:	F2G310222-003	Work Order #:	R5M6Plaa	Matrix SOLID
Date Sampled:	07/26/02 14:30	Date Received:	07/31/02	
Prep Date:	08/01/02	Analysis Date:	08/08/02	
Prep Batch #:	2213116	Analysis Time:	01:43	
Dilution Factor:	20			
* Moisture:	6.8	Method	SW846 8081A	

		rbporting	
PARAMETER	RESULT	LIMIT	UNITS
<b>Heptachlor</b>	ND	36	ug/kg
Heptachlor epoxide	ND	36	ug/kg
Aldrin	ND	36	ug/kg
Chlordane (technical)	MD	360	ug/kg
alpha-BHC	MD	36	ug/kg
gamma-BHC (Lindane)	ND	36	ug/kg
4,4'-DDT	NID	36	ug/kg
Dieldrin	ND	36	ug/kg

	Percent	RECOVERY
SURROGATE	RECOVERY	<u> Linits</u>
Tetrachloro-m-xylene	0.0 DIL	(57 - 116)
Decachlorobiphenyl	0.0 DIL	(45 - 147)

#### HOTE(S) :

Dil. The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

### FORM FOR NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY PESTICIDE

roject Name/Number: 341 East Ohio Street, Chicago, Illinois
Area Identification: F-4-VP
Date of Verification Survey: 7/26/02
Time of Verification Survey: 2.30 am/pm
The above-described excavation was sampled for pesticides at the time and date indicated above. The analytical results indicated that all pesticide-impacted soils have been removed as required by the Site Removal Action Criteria.
Documents pertaining to the pre-verification immunoassay and laboratory results for pesticides are attached for review and approval by the USEPA.
Signed:
Date: 8/19/02
Print Name: Steve C. Komder
Print Title: Senior Project Geochemist
STS Consultants, Ltd.
The attached Verification Survey documents were reviewed by USEPA, Region 5 on SIDO (2
Authorization is hereby granted to commence backfill and restoration work at this excavation.
Signed: Verrela Sim
Date: 8/24/2
Print Name: Verencha Sinner
Print Name: Verencia Sirner  Print Title: On-Scene Coopelinater
For USEPA Region 5

# FORM FOR NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY PESTICIDE

Project Name/Number: 341 East Ohio Street, Chicago, Illinois
Area Identification: #6-VP
Date of Verification Survey: 7/24/62
Time of Verification Survey: 2735 and
The above-described excavation was sampled for pesticides at the time and date indicated above. The analytical results indicated that all pesticide-impacted soils have been removed as required by the Site Removal Action Criteria.
Documents pertaining to the pre-verification immunoassay and laboratory results for pesticides are attached for review and approval by the USEPA.
Signed:
Date: 8/14/07
Print Name: Steve C. Kornder
Print Title: Senior Project Geochemist
STS Consultants, Ltd.
The attached Verification Survey documents were reviewed by USEPA, Region 5 on 20 02. The results of this survey indicate that the pesticide verification criteria as discussed in the Amended Removal Action Work Plan (STS, March 2002) and cleanup levels contained in 35 IAC 742 Appendix B, Table A for ingestion and inhalation, have been met.
Authorization is hereby granted to commence backfill and restoration work at this excavation.
Signed: Doncho Sima
Date: 8/20/12
Print Name: VECNETO Simon
Print Title: On-Scene Cocadinator
For USEPA Region 5

# FORM FOR . NOTIFICATION OF SUCCESSFUL VERIFICATION SURVEY PESTICIDE

Project Name/Number: 341 East Ohio Street, Chicago, Illinois
Area Identification: FID-VP
Date of Verification Survey:
Time of Verification Survey: 2:50 am/pm
The above-described excavation was sampled for pesticides at the time and date indicated above. The analytical results indicated that all pesticide-impacted soils have been removed as required by the Sit Removal Action Criteria.
Documents pertaining to the pre-verification immunoassay and laboratory results for pesticides an attached for review and approval by the USEPA.
Signed:
Date: 3/19/0 =
Print Name: Steve C. Kornder
Print Title: Senior Project Geochemist
STS Consultants, Ltd.
The attached Verification Survey documents were reviewed by USEPA, Region 5 of the Survey indicate that the pesticide verification criterias discussed in the Amended Removal Action Work Plan (STS, March 2002) and cleanup level contained in 35 IAC 742 Appendix B, Table A for ingestion and inhalation, have been met.
Authorization is hereby granted to commence backfill and restoration work at this excavations
Signed: Sunch Simon
Date: 8/20/0>
Print Name: VERNETA Sunon
Print Title: On-Scene Covadinator
For USEPA Region 5

1/20/12

Area Identification: (B) MAKA	$\mathcal{I}_{\mathcal{I}}$	PHASKII	FINA
Date of Verification Survey: 7-26-02			
Time of Verification Survey		an	n/pm
The above-described excavation was surveyed at the time survey indicated that all soils have been removed as requirements.			
Documents pertaining to this survey are attached for review	and appro	val by the U.	S. EPA.
Signed:			
fell lade		Date Z	<u>20-02</u>
JoHn Andenson		(Print Na	ame)
Preores Monngar		(Print	Title)
STS Consults Solutions through Science & En			
The attached Verification Survey documents were review  The results of this sucriteria as contained in the UAO, have been met.	ed by U.S rvey indic	S. EPA, Reg ate that the v	jion V c erificatio
Authorization is hereby granted to commence backfill and re-	storation v	vork at this ex	cavatio:
Signed:			
Vaneta 5. Simn		Date 7/3	4c2
Voeneta J Smin		(Print Ni	ame)
Viseneta J Smin On Scene Cevedination		(Print	Title)
For U.S. EPA Region V			

Area Identification: C-E-/-	10 (A) ANKA I,	PHYSE IL FLANG
Date of Verification Survey:	7-26-02	
	11:00 m	am/pm
	n was surveyed at the time and ave been removed as required by	
Documents pertaining to this sur	vey are attached for review and a	pproval by the U.S. EPA.
Signed:	<i></i>	
flate last		Date <u>Z-30-</u> 02
JOHN Andan	250~	(Print Name)
RACORDS 1	nowagar	(Print Title)
SS	STS Consultants, Ltd Solutions through Science & Engineering	
7/30/02	ey documents were reviewed by The results of this survey i	U.S. EPA, Region V c
criteria as contained in the UAO,		de estat en enclos
	o commence backfill and restorati	on work at this excavatio
Signed:  Yelneko 5 5,	non	Date 1/30/cz
Verneta J Sim	ncA	(Print Name)
On-Scene Coordin	nator	(Print Title)
<del></del>		<del></del>

Area Identification: B-C, 1-6 (C) ANKIN	I PHASE II FINAL
Date of Verification Survey: 7-26-02	
Time of Verification Survey	am/pm
The above-described excavation was surveyed at the tim survey indicated that all soils have been removed as requirely.	
Documents pertaining to this survey are attached for review	and approval by the U.S. EPA
Signed:	
fell lade	Date <u>Z-30-</u> 02
JOHN Androson	(Print Name)
Rreads Monngan	(Print Title)
STS Consul Solutions through Science & E	
The attached Verification Survey documents were review The results of this scriteria as contained in the UAO, have been met.	
Authorization is hereby granted to commence backfill and re	estoration work at this excavatio
Signed: )	
	1 1
	Date 7/30/42
Veeneta J Simon	Date 7/30/42 (Print Name)
Veeneta J Simon On-Scene Coordinator	

Area Identification: $B-C$ , $6-12$ $(B)$	HARRY PHASE I
Date of Verification Survey: 2-26-02	Fish
Time of Verification Survey	am/pm
The above-described excavation was surveyed at the time survey indicated that all soils have been removed as requirection.	
Documents pertaining to this survey are attached for review a	nd approval by the U.S. EPA.
Signed:	
fell lade	Date <u>7-30-</u> 0
JoHn Androson	(Print Name)
RECEDS Monngar	(Print Title)
STS Consultar Solutions through Science & Eng	
The attached Verification Survey documents were reviewe 7/30/02	
Authorization is hereby granted to commence backfill and res	toration work at this excavatio
Signed:  Venueta 5 Simi	Date <u>1/30/</u> u2
	(Print Name)
Verneta J Simon On-Scene Coordinator	(Print Title)
For U.S. EPA Region V	

Page 4

Area Identification: B-C, 6-12 (B) AGRAS	E. PHASE IT FINAL
Date of Verification Survey: 7-26-02	
Time of Verification Survey	am/pm
The above-described excavation was surveyed at the time and of survey indicated that all soils have been removed as required by Criteria.	
Documents pertaining to this survey are attached for review and ap	proval by the U.S. EPA.
Signed:	·
flak lad	Date <u>7-30-</u> 02
JoHn Andanson	(Print Name)
RACORDS MONAGAR	(Print Title)
STS Consultants, Ltd. Solutions through Science & Engineering	<i>-</i>
The attached Verification Survey documents were reviewed by  1/3/1/2	U.S. EPA, Region V codicate that the verification
	us wade at this avanuation
Authorization is hereby granted to commence backfill and restoration	III WOIK at this excavatio
Signed:  Junily Sim	Date 7/30/02
Verneta Simon	(Print Name)
Ugeneta Simon On-Sene Coordinator	(Print Title)

	Nutrani Gam	ma Spec R	eport- 341	East O	hio Str	eet Site					
	Area 1 Phase 2 C	Completion Sa	mples	<del>   </del>							
		3			A	14. Y 1		W 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	V 12		18 18 18 18 18 18 18 18 18 18 18 18 18 1
58	9 7/23/02 EPA Sen	d (\$1311 C-E	/ 1-10 A	33.8	-0.28	1.79	7	0.52	0.1	0.69	1.1: 0.86400
<u>5</u> 9	0 7/23/02 EPA San	d S1311 C-E	/1-10 B	32.9	1	1.91	0.1	0.55	0.96	0.75	1.08 0.93005
61	2: 7/26/02 EPA San	d \$1328 B-0	C/6-12 A	29.9	-4.28	1.78	0.6	0.55	0.86	0.74	1.65 0.922000
61	3 7/26/02 EPA Sen	d S1329 B-0	C/6-12 B	32.9	-1.09	1.95	0.94	0.58	0.31	0.78	1.25 0.97200
61	4 7/26/02 EPA Sen	d \$1330 B-0	C/1-6 C	27.8	D.46	2.05	0.65	0.63	0.67	D.83	1.32 1.042017

: • ;

9

9



PHONE:

SUBJECT: 341 6 Ohio

FAX:



# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION 5

### EMERGENCY RESPONSE BRANCH Mail Code: SE-5J

### FACSIMILE COVER PAGE

DATE: 7/30/6	2	
TO: John A		
ORGANIZATION.	STS	
	(312) 755-6032	
	CHA Simon .	•

(312) 353-2318

(312) 353-9176

NUMBER OF PAGES TO FOLLOW (INCLUDING COVER SHEET): 6
MESSAGE:

### STS Consultants, Ltd.

750 Corporate Woods Parkway Vernon Hills, IL 60061 Phone: (847) 279-2500 Fax: (847) 279-2510



### **FACSIMILE TRANSMISSION**

To:	Company Na	me:	Fax No.:
VERNATA SI	mon USL	EPH	3/2535-
<u> </u>			
			7213-77-
From: Tothe H. O.	valenson	S.V.S Phon	512-755-6·
Ra: 341 E. O.	tho		
	ease Comment/Reply	As Requested	For Signature
Message:			

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#### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION 5 EMERGENCY RESPONSE BRANCH Mail Code: SE-5J

FACSIMILE COVER PAGE

(312) 353-2318

FAA: (312) 333-7176
DATE: 7/30/62
To: John Anderson
ORGANIZATION STS
FAX NUMBER: (312) 7-55-6032
FROM: VERITHA SIMON
SUBJECT: 341 & Oh.O
NUMBER OF PAGES TO FOLLOW ANCILLDING COVER SHEET): 6 MESSAGE:
C-E, 1-10 (B)
B-C. 6-12 (A)
B-C, 6-12 (B)
B-C , 1-6 (6)
C-E, 1-10 (A)

1101

Area Identification: C-E, 1-10 AZIAS VIII	(Sono)
Area Identification: C-E, I-N AZIAS VIII.  Date of Verification Survey: 7-23-02-	
Time of Verification Survey	
The above-described excavation was surveyed at the time and date is survey indicated that all soils have been removed as required by the Criteria.	
Documents pertaining to this survey are attached for review and approva	al by the U.S. EPA.
Signed:	
fall lul-	
Lacones Managan	_ (Print Name)
Larones Monnolan	(Print Title)
- I money trilling	(, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
STS Consultants, Ltd.  Bolutions through Science & Engineering	(, , , , , , , , , , , , , , , , ,
STS Consultants, Ltd.	. EPA, Region V o
The attached Verification Survey documents were reviewed by U.S.  8 / 28 / 02	EPA, Region V on the that the verification
The attached Verification Survey documents were reviewed by U.S.    Solutions through Science & Engineering	EPA, Region V on the that the verification
The attached Verification Survey documents were reviewed by U.S.    S   28   02	EPA, Region V on the that the verification
The attached Verification Survey documents were reviewed by U.S.    S   28   02	EPA, Region V on the that the verification or which the verification or which the verification of the third excavation of the verification of the
The attached Verification Survey documents were reviewed by U.S.    S   28   02	EPA, Region V on the that the verification or which the verification or the thing excavation.  Date 8/28/02

1 12			-
Area Identification: $B-C$ , $1-12$		(SIMD)	·
Date of Verification Survey:	7-26-02	·	
Time of Verification Survey			am/pm
The above-described excavation was survey indicated that all soils have be Criteria.	•		
Documents pertaining to this survey ar	e attached for rev	iew and approva	Il by the U.S. EPA.
Signed:			
Jah lal			Date 8-28-0
Told Andrason			_ (Print Name)
Rucones Manag	lan		(Print Title)
			0
SB	STS C Solutions through Science	onsultants, Ltd. ce & Engineering	
The attached Verification Survey do 5/28/02 criteria as contained in the UAO, have	cuments were re	eviewed by U.S.	
The attached Verification Survey do	cuments were re. The results of the been met.	eviewed by U.S.	te that the verificat
The attached Verification Survey do 8/28/02 criteria as contained in the UAO, have	cuments were re. The results of the been met.	eviewed by U.S.	te that the verificat
The attached Verification Survey do 8/28/02 criteria as contained in the UAO, have Authorization is hereby granted to com-	cuments were re. The results of the been met.	eviewed by U.S.	te that the verificat
The attached Verification Survey do 8/28/02 criteria as contained in the UAO, have Authorization is hereby granted to companied:	cuments were re. The results of the been met.	eviewed by U.S. nis survey indicated	te that the verificat
The attached Verification Survey do 8/28/02 criteria as contained in the UAO, have Authorization is hereby granted to com- Signed:	cuments were re. The results of the been met.	eviewed by U.S. nis survey indicated	that the verifications of the that this excavation that this excavation that the verification of the verif

### Nutrani Gamma Spec Report- 341 East Ohio Street Site

Phase II Sand Samples for July 23, 2002

Sample ID	Sample Date	Sample Group	Description	Weight	U-238 Activity	U-236 Uncertainty	Th-232 Activity	Th-232 Uncertainty	Re-226 Activity	•	Total Radium Activity	Total Radium Uncertainty
589	7/23/02		S1311 C-E/ 1-10 A	33.8	-0.28	1.79	1	0.52	0.1	0.69	1.1	0.864002315
590	7/23/02	EPA Sand	S1311 C-E/ 1-10 B	32.9	1	1.91	0.1	0.55	0.98	0.75	1.08	0.930053762

$$\bar{\chi} = 1.09$$
 $a = 0.01$ 

### Nutrani Gamma Spec Report- 341 East Ohio Street Site

Phase II Sand Samples for July 26, 2002

Sampie (D	Sample Date	Sample Group	Description	Weight	U-238 Activity	U-238 Uncertainty	Th-232 Activity	Th-232 Uncertainty	Ra-228 Activity		Total Radium Activity	Total Radium Uncertainty
		EPA		† <u>-</u>								
812		<u>. — ·                                    </u>	S1328 B-C/6-12 A	29.9	-4.28	1.76	O.B	0.55	0.85	0.74	1.65	0.922008677
,		EPA		1					;			
613	7/26/02	Sand	S1329 B-C/6-12 B	32.9	-1.09	1.95	0.94	D. <b>58</b>	0.31	0.78	1.25	0.97200623
		EPA										
614	7/26/02	Sand	81330 B-C/1-6 C	27.8	0.46	2.05	0.65	0.63	0.67	0.83	1.32	1.042017274

$$\chi = 1.41$$
 $s = 0.21$ 

J.1

Area Identification: 5-17-5	0
Date of Verification Survey: 7-23-02	
Time of Verification Survey 8:00 m	am/pm
The above-described excavation was surveyed at the time and survey indicated that all soils have been removed as required to Criteria.	
Documents pertaining to this survey are attached for review and a	approval by the U.S. EPA.
Signed:	
for hol-	Date <u>723-02</u>
JoHn Andreson	(Print Name)
RECORDS MANAGER	(Print Title)
STB Consultants, Lt Solutions through Science & Engineeris	
STB Consultants, Lt	y U.S. EPA, Region V
STB Consultants, Lt Solutions through Science & Engineers  The attached/Verification Survey documents were reviewed by 7/23/02. The results of this survey	y U.S. EPA, Region V ( indicate that the verification
The attached/Verification Survey documents were reviewed by 1/23/02. The results of this survey criteria as contained in the UAO, have been met.	y U.S. EPA, Region V ( indicate that the verification
STB Consultants, Lt Solutions through Science & Engineeris  The attached/Verification Survey documents were reviewed by 1/23/02. The results of this survey criteria as contained in the UAO, have been met.  Authorization is hereby granted to commence backfill and restorate.	y U.S. EPA, Region V ( indicate that the verification
The attached/Verification Survey documents were reviewed by The results of this survey criteria as contained in the UAO, have been met.  Authorization is hereby granted to commence backfill and restorated signed:	y U.S. EPA, Region V indicate that the verification work at this excavation
The attached/Verification Survey documents were reviewed by 7/23/02. The results of this survey criteria as contained in the UAO, have been met.  Authorization is hereby granted to commence backfill and restorated in the UAO. The results of this survey criteria as contained in the UAO, have been met.  Authorization is hereby granted to commence backfill and restorated in the UAO. The results of this survey criteria as contained in the UAO, have been met.	y U.S. EPA, Region V indicate that the verification work at this excavation.  Date 7/23/02
The attached/Verification Survey documents were reviewed by 1/23/02. The results of this survey criteria as contained in the UAO, have been met.  Authorization is hereby granted to commence backfill and restoral Signed:  Treduck A. Micke.  FREDRICK A. MICKE	y U.S. EPA, Region V indicate that the verification work at this excavation.  Date 7/23/02  (Print Name)

	. 3 , 4 4	
Area Identification:	7-23-02	
Time of Verification Survey	5:00 km	am/pm
The above-described excavation survey indicated that all soils haw Criteria.		
Documents pertaining to this surv	vey are attached for review and	d approval by the U.S. EPA,
Signed:		Date 723 0
John Andraso		(Print Name)
Rueonos Mon	ingan	(Print Title)
52	57\$ Consultants Solutions through Science & Engine	, Ltd. erlag
The attached Verification Survey 7 / 23 / 02  criteria as contained in the UAO, I	y documents were reviewed The results of this surve	by U.S. EPA, Region V
7/23/02	y documents were reviewed  The results of this survented been met.	by U.S. EPA, Region V ey indicate that the verification
7/23/02 criteria as contained in the UAO, I	y documents were reviewed  The results of this survented been met.	by U.S. EPA, Region V ey indicate that the verification
7 /23/02  criteria as contained in the UAO, I  Authorization is hereby granted to	solutions through Science & Engine by documents were reviewed The results of this surve have been met.  commence backfill and resto	by U.S. EPA, Region V ey indicate that the verification
7 /23/02 criteria as contained in the UAO, I Authorization is hereby granted to Signed:	solutions through Science & Engine by documents were reviewed The results of this surve have been met.  commence backfill and resto	by U.S. EPA, Region V or indicate that the verification work at this excavation
criteria as contained in the UAO, I Authorization is hereby granted to Signed:  —Tredrick (2)	y documents were reviewed  The results of this survented been met.  commence backfill and resto	by U.S. EPA, Region V ey indicate that the verification work at this excavation.  Date 7/23/02  (Print Name)
7/23/02 criteria as contained in the UAO, I Authorization is hereby granted to Signed: —Tredrick Q FREDRICK	Solutions through Science & Engine  y documents were reviewed  The results of this surve have been met.  commence backfill and resto  Micke  A. MICKE	by U.S. EPA, Region V ey indicate that the verification work at this excavation.  Date 7/23/02  (Print Name)

### Nutrani Gamma Spec Report- 341 East Ohio Street Site

Exclusion Zone Confirmatory Samples for July 23, 2002

-	HOLL CALLS ACCULA	Illami à cettibles int	July 23, 20	V.	4	<u> </u>					
59	1 7/23/02 EPA	G-1.5/4-6 EPA#1	33.2	-0.29	2.43	1.86	0.71	2.51	0.95	4.36	1.186001685
59	2 7/23/02 EPA	G-1.5/4-8 EPA#2	32.7	2.71	2.24	2.25	0.64	1.82	0.85	4.07	1.06400188
59	3 7/23/02 EPA	G-1.5/4-8 EPA#3	32.6	6 0.87	2.75	3.11	0.79	2.6	1.06	5.71	1.322008051
59	4 7/23/02 EPA	G-1.5/4-8 EPA#4	31.9	2.45	2.45	1.84	0.7	2.65	0.94	4.49	1,172006826
59	6 7/23/02 EPA	G-1.5/4-8 EPANS	32.2	0.2	2.12	2.51	0.61	2	0.81	4.51	1.014001972
56	6 7/23/02 EPA	G-1.5/8-8 EPA#1	35.5	-0.05	1.59	1.69	0.48	0.63	0.61	2.32	0.764002618
59	7 7/23/02 EPA	G-1.5/8-8 EPA#2	35.6	0.6	2.01	1.57	0.59	3.91	0.81	5.48	1.0020976
59	8 7/23/02 EPA	G-1.5/6-8 EPA#3	35.7	0.58	1.82	1.7	0.54	1.41	0.72	3.11	0.9
59	9 7/23/02 EPA	G-1.5/6-8 EPA#4	34.9	3.69	2.34	0.61	0.65	0.86	0.66	1.47	1.078007421
60	0 7/23/02 EPA	G-1.5/8-8 EPA#6	37	0.22	2.39	1.05	0.7	1.66	0.94	2.73	1.172006826

X

Average Total Radium (Th-232+Ra-226) Concentration for Average Total Radium (Th-232+Ra-226) Concentration for G-1.5 / 4-8 G-1.5 / 6-8

4.63

pCi/g  $\alpha = 0.63$ pCi/g  $\alpha = 1.50$ 

X

3.02

						<del></del>								
SAND Samples from C-E/1-10														
589	7/23/02	EPA	S1311	C-E/	1-10 A	33.8	-0.28	1.79	1	0.52	0.1	0.69	1.1	0.864002315
590	7/23/02	EPA	81311	C-E	1-10 B	32.9	1	1.91	0.1	0.55	0.98	0.75	1.08	0.930053782
			7										A	

Sand sample

113/

Area Identification: E-G	110-12	
Date of Verification Survey:	7-22-02	
Time of Verification Survey	9:30	am/pm
The above-described excavation was survey indicated that all soils have Criteria.		
Documents pertaining to this survey	are attached for review ar	nd approval by the U.S. EPA.
Signed:	vin_	Date
DUMANSAIS F. C	POCARINA	(Print Name)
Tite Coordinato		(Print Title)
E	STS Consultant Solutions through Science & Engin	
The attached Verification Survey d 7/23/03 criteria as contained in the UAO, have	The results of this surv	
Authorization is hereby granted to co	mmence backfill and resto	oration work at this excavation
Signed:		, ,
Fredrick a. Mic	ke	Date 7/23/02
- FREDRICK A. /	MICKE	(Print Name)
ON-SCENE COOP	RDINATOR	(Print Title)
For U.S. EPA Region V		

Area Identification:	G-1.5/2-4	
	7-22-02	•
Time of Verification Survey _	9:25	(am)/prn
	ation was surveyed at the time and s have been removed as required	
Documents pertaining to this	survey are attached for review and	approval by the U.S. EPA.
Signed:	Susanier	Date 7-22-02
Dungasi J.	Susunier	(Print Name)
5. L. C.	dinalo	(Print Title)
<b>E3</b>	STS Consultants, L Solutions through Science & Engineeri	
7/23/02 criteria as contained in the UA	urvey documents were reviewed b The results of this survey AO, have been met.  ed to commence backfill and restorate	indicate that the verification
Signed:		1 .
Fredrick a.	Micke	Date 7/23/02
	•	•
FREDRICK A	MICKE	(Print Name)
	COORDINATOR	(Print Name) (Print Title)

Area Identification:	6-1/11-13	
Date of Verification Survey:	7-22-02	ignores a servicio de acultata in propositivo de la consecución de del del del del del del del del del
Time of Verification Survey	9:15	am/pm
The above-described excavation survey indicated that all soils hereita.		
Documents pertaining to this sur	rvey are attached for review ar	nd approval by the U.S. EPA.
Signed:	in	Date 7-22-102
Dungerais F. G	ocanien	(Print Name)
Tite Cook	raice of or	(Print Title)
SS	STS Consultant Solutions through Science & Engin	
The attached Verification Surve 7/23/02 criteria as contained in the UAO,	The results of this surv	
Authorization is hereby granted to	to commence backfill and resto	oration work at this excavation
Signed:		/ 1
Fredrick a.	Micke	Date 7/23/02
FREDRICK A.	•	
ON-SCENE CO	WRDINA TOR	(Print Title)

Area Identification:	6-1/9-11	
Date of Verification Survey:	7-22-02	ppp as somman date assuming application of territories and a second of the second of t
Time of Verification Survey	9:05	(am)/pm
The above-described excavation survey indicated that all soils he Criteria.		
Documents pertaining to this sur	vey are attached for review and	d approval by the U.S. EPA.
Signed:  Manuel Lesenson	)	Date <u>7-22-02</u>
· DUMANAIS	F. GUERRICA	
Dite Coordina tot	-	(Print Title)
SP	STS Consultants, Solutions through Science & Engine	•
The attached Verification Survices 7/23/02 criteria as contained in the UAO,	The results of this surve	
Authorization is hereby granted t	to commence backfill and restor	ration work at this excavation
Signed:		
Fredrick a.	Nicke	Date 7/23/02
FREDRICK A.	MICKE	(Print Name)
· ON-SCENE	COORDINATOR	(Print Title)
For U.S. EPA Region V		

Area identification:	6-1.5/8-9	
Date of Verification Survey.	7-22-02	
Time of Verification Survey	9:00	<u>á</u> m/pm
	on was surveyed at the time and d have been removed as required by	
Documents pertaining to this su	rvey are attached for review and ap	proval by the U.S. EPA.
Signed:  Lican	um)	Date 7-22-02
	1 6 Guerrier	
Fite Coordin	na for	(Print Title)
SZ	STS Consultante, Ltd. Solutions through Science & Engineering	
	vey documents were reviewed by The results of this survey in , have been met.	
Authorization is hereby granted t	to commence backfill and restoration	n work at this excavation
Signed:		,
Fredrick a.	Micke	Date 7/23/02
FREDRICK A	MICKE.	(Print Name)
ON-SCENE	COORDINATOR	(Print Title)
For U.S. EPA Region V		

### Nutrani Gamma Spec Report- 341 East Ohio Street Site

Exclusion Zone Confirmatory Samples for July 22, 2002

		Tales To To To					10 To	***	74 .		
582	7/22/02 EPA	G-1.5/8-9 EPA#1	30.3	-1.73	1.63	0.86	0.49	1.47	0.88	2.33	0.822006732
583	7/22/02 EPA	G-1.5/B-9 EPA#2	32	0.46	2.01	1.5	C.58	1.05	0.77	2.55	0.964002075
584	7/22/02 EPA	G-1,5/8-9 EPA#3	31.1	-1	1.65	1.32	0.48	0.9	0.65	2.22	0.809022277
585	7/22/02 EPA	G-1.5/8-9 EPA#4	31.3	-1.38	1.72	1.2	0.51	1.7	0.68	2.9	0.85
586	7/22/02 EPA	G-1.5/8-9 EPA#5	30.1	-1.43	1.97	1.53	0.57	1.01	0.77	2.54	0.958016788
587	7/22/02 EPA	G-1/9-11 EPA#1	29.4	0.25	2.02	2.84	0.59	0.86	0.75	3.7	0.954253635
588	7/22/02 EPA	G-1/9-11 EPA#2	29.6	0.01	2.11	1.72	0.61	2.4	0.84	4.12	1.038123307
589	7/22/02 EPA	G-1/9-11 EPA#3	29.9	3.65	2.2	2.02	0.63	1.57	0.83	3.59	1.042017274
570	7/22/02 EPA	G-1/9-11 EPA/4	31.5	1,37	1.85	1.52	0.54	3	0.73	4.52	0.908 9824
571	7/22/02 EPA	G-1/9-11 EPA#6	30.3	-1.85	1.71	1.71	0.51	2.05	0.66	3.76	0.8340 328
572	7/22/02 EPA	G-1/11-13 EPA#1	33	-1.17	2.14	0.87	0.64	2.17	0.65	3.04	1.0* 188
573	7/22/02 EPA	G-1/11-13 EPA#2	33.6	-0.41	2.2	0.64	0.68	1.6	0.87	2.24	1.092 483
574	7/22/02 EPA	G-U11-13 EPA#3	33.2	-2.73	2.02	0.33	0.81	2.67	0.82	. 3	1.022007828
575	7/22/02 EPA	G-V11-13 EPA#4	34.9	-5.88	1.59	1.75	0.5	1.44	0.65	3.19	0.820080973
576	7/22/02 EPA	G-1/11-13 EPA#5	32.8	4.57	2.58	0.65	0.7	1.2	0.98	2.05	1.188107731
577	7/22/02 EPA	G-1.6/2-4 EPA#1	29.3	3.55	2.63	2.88	0.74	0.23	0.93	3.09	
578	7/22/02 EPA	G-1.5/2-4 EPA#2	30.4	3.43	2.21	2.01	0.61	0.57	0.79	2.58	0.996002190
579	7/22/02 EPA	G-1.5/2-4 EPA/3	29.7	1.12	2.18	1.17	0.63	1.88	0.85	3.05	1.05801701
580	7/22/02 EPA	G-1.5/2-4 EPAM	31.2	0.97	1.38	2.4	0.4	0.88	0.52	3.26	0.85804877
561	7/22/02 EPA	G-1.5/2-4 EPA#5	31.3	4.94	2.63	2.03	0.74	1.93	0.97	3.96	The second secon
582	7/22/02 EPA	E-G/10-12 EPA#1	34.3	2.34	2.85	2.27	0.75	1.36	D.97	3.63	
583	7/22/02 EPA	E-G/10-12 EPA#2	34.4	-2.16	1.95	2.63	0.59	2.04	0.77	4.67	
584	7/22/02 EPA	E-G/10-12 EPA#3	33.7	-0.63	2.2	1.96	0.64	2.12	0.85	4,00	1.8
585	7/22/02 EPA	E-G/10-12 EPAM	31.9	-0.5	2.29	1.59	0.67	2.69	0.91	4.2	3 1 15 24
586	7/22/02 EPA	E-G/10-12 EPA#5	33.7	3.94	2.26	1.57	0.65	2.95	0.86	4.5	2 1.07800742

Average Total Radium (Th-232+Ra-226) Concentration for	G-1.5 / 8-9	2.51	pCl/g .a=0.26
Average Total Radium (Th-232+Ra-226) Concentration for	G-I / 9-11	3,94	pCVg カェウ ろい
Average Total Radium (Th-232+Ra-226) Concentration for	G-I / 11-13	2.70	pCi/g 🙇 = O S2
Average Total Radium (Th-232+Ra-226) Concentration for	G-1.5 / 2-4	3.19	pCi/g a= 0 30
Average Total Radium (Th-232+Ra-226) Concentration for	E-G / 10-12	4.24	pCi/g & = 0.41

Area Identification: E-C, B-10
Date of Verification Survey: 7-12-02
Time of Verification Survey 10:00 am/om
The above-described excavation was surveyed at the time and date indicated above. The survey indicated that all soils have been removed as required by the Site Removal Action Criteria.
Documents pertaining to this survey are attached for review and approval by the U.S. EPA.
Signed:
Juli 1202
Tothe Anchanson (Print Name)
Drienos Manngan (Print Title)
STS Consultants, Ltd. Solutions through Science & Engineering
The attached Verification Survey documents were reviewed by U.S. EPA Region V.C.
The attached Verification Survey documents were reviewed by U.S. EPA, Region V c  7/12/02  The results of this survey indicate that the verification criteria as contained in the UAO, have been met.
The attached Verification Survey documents were reviewed by U.S. EPA, Region V c  7/12/02  The results of this survey indicate that the verificatic criteria as contained in the UAO, have been met.  Authorization is hereby granted to commence backfill and restoration work at this excavation.
The attached Verification Survey documents were reviewed by U.S. EPA, Region V c 7/12/02. The results of this survey indicate that the verificatic criteria as contained in the UAO, have been met.  Authorization is hereby granted to commence backfill and restoration work at this excavation Signed:
The attached Verification Survey documents were reviewed by U.S. EPA, Region V c  7/12/02 The results of this survey indicate that the verificatic criteria as contained in the UAO, have been met.  Authorization is hereby granted to commence backfill and restoration work at this excavation signed:  7/12/02 Date 7/12/02  Date 7/12/02

Area Identification: E-6, 6-8
Date of Verification Survey: 7-12-02
Time of Verification Survey 10:00 am/pm
The above-described excavation was surveyed at the time and date indicated above. The survey indicated that all soils have been removed as required by the Site Removal Action Criteria.
Documents pertaining to this survey are attached for review and approval by the U.S. EPA.
Signed:
July 12-02
Total Anchanson (Print Name)
RELONDS MINNIGER (Print Title)
STS Consultants, Ltd. Solutions through Science & Engineering
The attached Verification Survey documents were reviewed by U.S. EPA, Region V c  7/12/02  The results of this survey indicate that the verification criteria as contained in the UAO, have been met.
7/12/02 . The results of this survey indicate that the verification
The results of this survey indicate that the verification criteria as contained in the UAO, have been met.
The results of this survey indicate that the verification criteria as contained in the UAO, have been met.  Authorization is hereby granted to commence backfill and restoration work at this excavation.
The results of this survey indicate that the verification criteria as contained in the UAO, have been met.  Authorization is hereby granted to commence backfill and restoration work at this excavation signed:
The results of this survey indicate that the verification criteria as contained in the UAO, have been met.  Authorization is hereby granted to commence backfill and restoration work at this excavation signed:  Treduck A. Micke.  Date 7/12/02

Area Identification: E-0, 2-9
Date of Verification Survey: 7-12-02
Time of Verification Survey 10:00 am/pm
The above-described excavation was surveyed at the time and date indicated above. The survey indicated that all soils have been removed as required by the Site Removal Action Criteria.
Documents pertaining to this survey are attached for review and approval by the U.S. EPA.
Signed:
fall last Date <u>7-12-02</u>
Tothe Anchenson (Print Name)
DELONDS MANNER (Print Title)
STS Consultants, Ltd. Solutions through Science & Engineering
The attached Verification Survey documents were reviewed by U.S. EPA, Region V c  7 12 02  . The results of this survey indicate that the verification criteria as contained in the UAO, have been met.
Authorization is hereby granted to commence backfill and restoration work at this excavatio
Signed:
- Tredrick a. Micke Date 7/12/02
FREDRICK A. MICKE (Print Name)
ON-SCENE COORDINATOR (Print Title)

Area Identification: E-G, 4-6	
Date of Verification Survey: 7-12-02	
Time of Verification Survey 10:00	am/pm
The above-described excavation was surveyed at the time and date indicasurvey indicated that all soils have been removed as required by the Site Criteria.	
Documents pertaining to this survey are attached for review and approval by	the U.S. EPA
Signed:	
full land Date	7-12-02
Tolka Brokenson (P	rint Name)
Dreones Mongen	(Print Title)
STS Consultants, Ltd. Solutions through Science & Engineering	
The attached Verification Survey documents were reviewed by U.S. EPA	it the verification
The attached Verification Survey documents were reviewed by U.S. EPA  7/2/02  The results of this survey indicate the criteria as contained in the UAO, have been met.	it the verification
The attached Verification Survey documents were reviewed by U.S. EPA 7/12/02 The results of this survey indicate the criteria as contained in the UAO, have been met.  Authorization is hereby granted to commence backfill and restoration work at Signed:  ———————————————————————————————————	it the verification
The attached Verification Survey documents were reviewed by U.S. EPA 7/12/02 The results of this survey indicate the criteria as contained in the UAO, have been met.  Authorization is hereby granted to commence backfill and restoration work at Signed:  Traduck Q. Micke Date  FREDRICK A. MICKE (F	this excavatio $\frac{7}{12} \frac{2}{2}$

#### Nutrani Gamma Spec Report- 341 East Ohio Street Site

Exclusion Zone Confirmatory Samples for July 12, 2002

	Y		1	11.	1 Man	x(t), y(0)	继点其		1.5	Service Contract	1. 1. 1. 1. E	納得其他時		经济外 计有限
E House	Marin San		4.14.14	a Taile	er English Life as	MARKE!			و د باز مید د کا		111397		Will the	
492	7/12/02	EPA	51231	E-G/4-8	EPA#1	32	3.04	2.47	<b>№</b> 1.83	0.7	* 2.53	0.95	4.36	1.180042372
493	7/12/02	EPA	S1232	E-G/4-6	EPA#2	32.1	0.35	1.88	3.16	0.55	2.38	0.7	5.54	0.890224691
494	7/12/02	EPA	\$1233	E-G/4-6	EPA#3	31.3	2.43	1.78	3.38	0.51	0.88	0.65	4.26	0.826196103
495	7/12/02	EPA	91234	E-G/4-6	EPA#4	29.1	5.82	2.62	4.31	0.74	2.59	0.96	6.9	1.212105606
496	7/12/02	EPA	\$1235	E-G/4-6	EPA #5	29.5	-2.33			0.53	2.67	0.72	3.42	D.894035793
497	7/12/02	EPA	81236	E-G/2-4	EPA#1	28.5	1.16		( ·	0.59	1.24	0.78	3.18	0.97800818
498	7/12/02	EPA			EPA#2	23.8	5.56	~			2.35	0.85	3.88	1.058017013
499	7/12/02	EPA	81238	E-G/2-	EPA#3	30.1	2.19	2.42	0.01	0.69	3.22	0.98	3.23	1.198540779
500	7/12/02	EPA	S1239	E-G/2-	4 EPA #4	28.3	5,67	2.64	1.39	0.74	1.35	0.97	2.74	1.220040983
501	7/12/02		S1240	E-G/2-	4 EPA #5	28.6					3.06	0.59	2.81	0.846286004
502	7/12/02	EPA			B EPA #1	32.8	0.13	1.8	0.79	0.54	0.59	0.7	1.38	0.884081444
503	7/12/02	EPA	S1242	E-G/6-	B EPA #2	32.9	4	1.49	0.2	0.43	2.29	0.58	2.49	0.72201108
504	7/12/02	EPA	\$1243	E-G/6-	BEPA#3	30.4	-0.37	1.95	1.1	0.57	1.8	0.78	2.9	0.968074531
505	7/12/02	EPA	\$1244	E-G/6-	8 EPA #4	28.4	-0.67	2.46	0.58	0.72	1.76	0.98	2.32	1.216059209
506	7/12/02	EPA	S1245	E-G/6-	8 EPA #5	30.3			_	0.54		0.74	1.79	0.916078599
507	7/12/02	EPA	81246	E-G/8-	10 EPA #1	وجه المعددين والماسية وأحا				0.6	2.91	0.81	3.9	1.008017857
508	7/12/02	EPA			10 EPA #2		3.38	2.35	1	0.65	0.32	0.87	1.32	1.086001842
509	7/12/02	EPA	\$1246	E-G/8-	10 EPA #3				0.49	0.6	2.69	0.84	3.18	1.032279032
510		I			10 EPA #4			L		1	·	0.77	2.63	
511	7/12/02	ZEPA	\$1250	E-G/8	10 EPA #5	27	0,63	1.80	0.88	0.54	1.2	0.73	2.08	0.908019824

Average Total Radium (Th-232+Ra-226) Concentration for	E-G / 4-6=	4.90	pCi/g $\Delta = 1.35$
Average Total Radium (Th-232+Ra-226) Concentration for	E-G / 2-4 =	3.17	pCi/g s= 0.45
Average Total Radium (Th-232+Rs-226) Concentration for	E-G / 6-8 =	2.18	pCVg s= 0.60
Average Total Radium (Th-232+Ra-226) Concentration for	E-G / 8-10 =	2.62	pCl/g = 0.99

### United States Environmental Protection Agency



Region V 77 West Jackson Blvd. Chicago, Illinois 60604

# Superfund Division Emergency Response Branch

# FACSIMILE COVER SHEET FAX #: 312 353-9176

TO: John Anderson	DATE: 7/9/62 "
COMPANY: 575	FAX#: 312-755-6022
FROM: Lirry Jensen	MAILCODE:
PHONE: 312-886-502-6	•
PAGES (including cover sheet):	7
MESSAGE:	•

Area Identification:	A.5-	D.5- 14-15	5.5	
Date of Verification S	Survey:	8-02		
Time of Verification S	Survey	7:00 m		
The above-described	d excavation wa	s surveyed at the tim been removed as requ		
Documents pertaining	g to this survey a	are attached for review	and approval by the	U.S. EPA.
Signed:				
fals .			Date Z	7-8-02
Tolh	Andras	2~	(Print	Name)
Recorps	Monny	er .	(Prin	
ES		STS Consul Solutions through Science & E		
The attached Verific	7/02 M	ocuments were review The results of this s a been met.	wed by U.S. EPA, Rurvey indicate that the	tegion V c e verificatic
Authorization is herel	by granted to co	mmence backfill and re	estoration work at this	excavation
Signed:		4		
Lang lenser	for Ve	rneta Sinon	Date 7	10 2 xg
LAKEY J				Name)
SENIUR	BEALTH	1HYICIST	(Pri	nt Title)
For U.S. EPA Region	٠V	•		

Area Identification: $R-C$	9-13	
Date of Verification Survey:	7-8-02	
Time of Verification Survey	7.00 m	am/pm
	ation was surveyed at the time is have been removed as require	
Documents pertaining to this	survey are attached for review a	and approval by the U.S. EPA.
Signed:		
fall loss		Date 7-8-02
John And		(Print Name)
RECORDS M.	onnyen	(Print Title)
SA	STS Consulter Solutions through Science & Eng	
The attached Verification S 7/9/02 criteria as contained in the U	Survey documents were reviewed.  The results of this sure AO, have been met.	ed by U.S. EPA, Region V covey indicate that the verification
Authorization is hereby grant	ted to commence backfill and res	toration work at this excavation
Signed:		. ,
Luny losen for	r Verneta Somon	Date 7/9/02
LARRY JUNSON		(Print Name)
GENIOR HEALTH	1 8H410157	(Print Title)
For U.S. EPA Region V		

Area Identification: 4.5	-E, 13-14	
Date of Verification Survey:		
Time of Verification Survey	7:00 m	am/pm
		e and date indicated above. The uired by the Site Removal Action
Documents pertaining to this so	urvey are attached for review	and approval by the U.S. EPA.
Signed:		•
fall lived		Date 7-8-02
John And	rason	(Print Name)
RECORDS MA	NAGRA	(Print Title)
<b>E3</b>	STS Consul Solutions through Science & E	
The attached Verification Sur 7/9/6~ criteria as contained in the UAC	The results of this s	wed by U.S. EPA, Region V courvey indicate that the verificatic
Authorization is hereby granted	to commence backfill and n	estoration work at this excavation
Signed:		
Larry Jensen for	Vernety Sinon	Date 7/9/02
LARRY TENSER		(Print Name)
SENIOR HEALTH	H PHYS ICIST	(Print Title)
For U.S. EPA Region V		

Area Identification: d-E, 9-11	,
Date of Verification Survey: 7-8-02	
Time of Verification Survey 7:00	am/pm
The above-described excavation was surveyed at the till survey indicated that all soils have been removed as re- Criteria.	me and date indicated above. The
Documents pertaining to this survey are attached for review	w and approval by the U.S. EPA.
Signed:	•
- full lind	Date 7-8-02
Tolon Andresse Records Monngan	(Print Name)
RECORDS MONNIGER	(Print Title)
STS Cone Solutions through Science &	oultents, Ltd. Engineering
The attached Verification Survey documents were revi 7/9/0—. The results of this criteria as contained in the UAO, have been met.	ewed by U.S. EPA, Region V c survey indicate that the verificatic
Authorization is hereby granted to commence backfill and	restoration work at this excavation
Signed: LARRY JENSEN  LARRY JENSEN	Date 7/9/02
LARRY JENSEN	(Print Name)
SENIOR AEALTH PHYICIST	
For U.S. EPA Region V	

Area Identification:	-E, 11-	13	
Date of Verification Surve	ey: <u>7-8</u>	-02	
Time of Verification Surve		7:00 m	am/pm
			nd date indicated above. The by the Site Removal Action
Documents pertaining to	this survey are a	attached for review and	d approval by the U.S. EPA.
Signed:			
fall la	rd		Date 7-8-02
Jolla H			(Print Name)
Recorps.	MONNGER	· ·	(Print Title)
<b>E3</b>	Sol	STS Consultants utions through Science & Engine	
The attached Verificatio	<u> 29</u> . T	he results of this survi	by U.S. EPA, Region V or ey indicate that the verification
	·		ration work at this excavatio
Signed:	sen for V.	epaeta Simon	Date 7/9/62,
. / /	ENSEN	•	(Print Name)
SENIOR 14A	-ALTH PH	145,10157	(Print Title)
For U.S. EPA Region V			

Area Identification: A.S-D, 15.5-17	
Date of Verification Survey: 7-8-02	
Time of Verification Survey 7:00 m	am/pm
The above-described excavation was surveyed at the time and date survey indicated that all soils have been removed as required by the Criteria.	
Documents pertaining to this survey are attached for review and appro	oval by the U.S. EPA
Signed:	
fall lived	Date 7-8-02
John Andrason	(Print Name)
RECORDS MONNIGER	(Print Title)
STS Consultants, Ltd. Solutions through Science & Engineering	:
The attached Verification Survey documents were reviewed by U. 7/9/07. The results of this survey indicriteria as contained in the UAO, have been met.	S. EPA, Region V coate that the verification
Authorization is hereby granted to commence backfill and restoration	work at this excavation
Signed:	
Larry Jensey for Vernety Simon	Date 7/9/02
LARRY JENSEN	•
SENIOR HEALTH PHYSICIST	(Print Title)
For U.S. EPA Region V	

Area Identification: D-E, 6-9	
Date of Verification Survey: 6-24-02	
Time of Verification Survey	am/pm
The above-described excavation was surveyed at the time and survey indicated that all soils have been removed as required by Criteria.	· · · · · · · · · · · · · · · · · · ·
Documents pertaining to this survey are attached for review and approximately	pproval by the U.S. EPA.
Signed:	
John Undorse	Date <u>6-25-0</u> c
Tolon ANDARSON	(Print Name)
RECORDS MANISON	(Print Title)
STS Consultants, Ltd. Solutions through Science & Engineering	
The attached Verification Survey documents were reviewed by	
Authorization is hereby granted to commence backfill and restorati	on work at this excavatio
Signed Veeneta Sima	Date 6/25/c2
Verneta Simon	(Print Name)
On-Scene Coordinator	(Print Title)
For U.S. EPA Region V	

Area Identification:	, 2-6	
Date of Verification Survey:	6-24-02	
Time of Verification Survey	1:00 Pm	am/pm
The above-described excavation wa survey indicated that all soils have librateria.		
Documents pertaining to this survey a	are attached for review and a	approval by the U.S. EPA.
Signed:		Date <u>6-25-</u> 00
Tolhu Anduns		(Print Name)
KACORDS MANNE	ghs	(Print Title)
	STS Consultants, Li Solutions through Science & Engineeri	ng :
The attached Verification Survey de Color	The results of this survey	
Authorization is hereby granted to co	ommence backfill and restora	tion work at this excavatio
Signed: Verneta Simon	· · · · · · · · · · · · · · · · · · ·	Date 6/25/02 (Print Name)
On-Scene Coordina	ten	(Print Title)
For U.S. FPA Region V		

Area Identification: B-C, 6-9	
Date of Verification Survey: 624-02	· · · · · · · · · · · · · · · · · · ·
Time of Verification Survey	am/pm
The above-described excavation was surveyed at the time and survey indicated that all soils have been removed as required becriteria.	
Documents pertaining to this survey are attached for review and a	pproval by the U.S. E.PA.
Signed:	
Joh lid	Date 6-25-02
Tota Andknown	(Print Name)
Promos monjojas	(Print Title)
STS Consultants, Lt Solutions through Science & Engineering	
The attached Verification Survey documents were reviewed by Color of this survey criteria as contained in the UAO, have been met.	· —
Authorization is hereby granted to commence backfill and restora	tion work at this excavatior
Signed:	
Velue In Simon	Date <u>6/25/</u> c2
Verencha Simon	(Print Name)
On Scene Coundinater	(Print Title)
For U.S. EPA Region V	

Area Identification:	2-6	
Date of Verification Survey:	6-24-02	
Time of Verification Survey	1.00 Pm	am/pm
The above-described excavation variety indicated that all soils have Criteria.		
Documents pertaining to this surve	y are attached for review and app	roval by the U.S. EPA.
Signed:		Date 6 25-00
Tolh Mohn	rso	(Print Name)
Treonos Mo	NAGKN	(Print Title)
SP	STS Consultants, Ltd. Solutions through Science & Engineering	
The attached Verification Survey 0502 criteria as contained in the UAO, h	The results of this survey ind	<del>-</del>
Authorization is hereby granted to	commence backfill and restoration	work at this excavatio
Signed: Which Signed		Date <u>(/2<!--</u-->(2</u>
Verneta Simon		/ ' (Print Name)
On-Scene Coordi	nator	(Print Title)
For U.S. FPA Region V		

Area Identification: C-D, 6-9
Date of Verification Survey: 6-24-02
Time of Verification Surveyam/pm
The above-described excavation was surveyed at the time and date indicated above. T survey indicated that all soils have been removed as required by the Site Removal Acti Criteria.
Documents pertaining to this survey are attached for review and approval by the U.S. EPA.
Signed:
John Midoran Date 6-250
John Andrison (Print Name)
Dacords monagen (Print Title)
STS Consultants, Ltd. Solutions through Science & Engineering
The attached Verification Survey documents were reviewed by U.S. EPA, Region V  The results of this survey indicate that the verification of the UAO, have been met.
Authorization is hereby granted to commence backfill and restoration work at this excavation
Signed:
Verneto Simon Date 6/2.5/0>
Vernicha Simon (Print Name)
On-Scene Coordington (Print Title)
For U.S. EPA Region V

Area Identification: P-C, 2-6	
Date of Verification Survey: 6-18-02	
Time of Verification Survey 10:30 km	am/pm
The above-described excavation was surveyed at the survey indicated that all soils have been removed as Criteria.	
Documents pertaining to this survey are attached for re	view and approval by the U.S. EPA.
Signed:	
ful lel-	Date 6-18-02
John Andrason	(Print Name)
Records	(Print Title)
STS 6 Solutions through Scien	Consultants, Ltd. ce & Engineering
The attached Verification Survey documents were read to the criteria as contained in the UAO, have been met.	
Authorization is hereby granted to commence backfill a	nd restoration work at this excavatio
Signed:	1 1
Fredrick a. Micke	Date 4/19/02
FREDRICK A. MICKE	(Print Name)
ON-SCENE COORDINATOR	(Print Title)
For U.S. EPA Region V	

Nutrani Gamma Spec Report- 341 East Ohio Street Site

Exclusion Zone Confirmatory Samples for June 18, 2002

				'											
															0.8920
158	6/18/02	EPA	S1079	B-C/2	-0 EP/	(#1	27.7	0.51	1.85	2.79	0.54	2.41	0.71		
159	6/18/02	EPA	\$1080	B-C/2	-8 EP/	12	26.8	5.47	2.68	1.42	0.76	3,11	1.03	4.53	1.2800
180	6/18/02		S1081				28.5	4.36	2.29	2.58	0.66	2.69	0.86	5.27	1.0840
161	6/18/02	EPA	S1082				27.5	6.37	1.83			3.13	0.68	4.7	
162	8/18/02		S1083				27.6	5.79		<u> </u>		4.18	0.97	5.99	1.2080
			<u> </u>							<b>†</b>					
		<b>!</b>	·						<del></del>	1					
		<b></b>		teri	No. year or year and the					<del> </del>					
··		<b></b>								†	1	<u> </u>			
		<del> </del>					<del> </del>		<del></del>	{	ŧ		ţ		

Average Total Radium (Th-232+Ra-226) Concentration for 8-C/26=  $\chi$  = 5.138 pCi/g  $\omega$  = 0.57

Note: Other Exclusion Zone Area, C-D/2-8, resulted in concentrations greater than than the action level of 7.1 pCi/gram. This area will cleaned further and resampled at a later date

Will be redone

Area Identification:	B-8.5	
Date of Verification Survey:	6-11-02	
Time of Verification Survey	3:00 Pm	am/pm
	on was surveyed at the time an have been removed as required	
Documents pertaining to this su	urvey are attached for review and	approval by the U.S. EPA.
Signed:		
for la		Date 6-11-02
John 1	Indiason	(Print Name)
Ruconos	Managar	(Print Title)
ER	\$TS Consultants, Solutions through Science & Enginee	
	vey documents were reviewed  The results of this surve D, have been met.	
,	to commence backfill and restor	ration work at this excavation
Signed:		1 1
- Fredrick a.	Micke	Date <u>6/12/0</u> 2
FREDRICK A.	MICKE	(Print Name)
ON-SCENE	COORDINATOR	(Print Title)
For U.S. EPA Region V		

Area Identification:	15 2-6	
Date of Verification Survey:	6-11-02	
Time of Verification Survey	3:00 pm	am/pm
The above-described excavation v survey indicated that all soils have Criteria.		
Documents pertaining to this survey	y are attached for review and	approval by the U.S. EPA,
Signed:		
for.	lul-	Date 6-11-02
John	Andansor	(Print Name)
Ruconp		(Print Title)
<u>e</u>	8TS Consultants, L Solutions through Science & Engineer	
The attached Verification Survey 6/12/02 criteria as contained in the UAO, ha	The results of this survey	
Authorization is hereby granted to	commence backfill and restora	ation work at this excavatio
Signed:		
Fredrick a. Mic	lee	Date 6/12/02
FREDRICK A.	MICKE	
ON-SCENE CO	ORDINATOR	(Print Title)
For U.S. EPA Region V		

Exclusion	ZODE	Confirma	atory Sar	noles for	' June 1	1	2002

Sample	Sample	Semple	Description	Weight	U-238	U-236	Th-232	Th-232	Ra-226	Re-226	Total Radium	Total Radium
10	Date	Group			Activity	Uncertainty	Activity	Uncertainty	Activity	Uncertainty	Activity	Uncertainty
89	6/11/02	EPA	S1050 B-8 5 EPA #1	36 5	161	1 95	2 12	0.57	186	0.76	3.98	0.95
90	6/11/02	EPA	S1051 B-8.5 EPA #2	34 1	2.96	2.2	4 44	0.63	2 98	0.81	7.42	1 026157883
91	6/11/02	EPA	S1052 B-8 5 EPA #3	34 4	1 76	23	1.14	0 66	2.43	0.89	3.57	1 108016245
92	6/11/02	EPA	S1053 B-8.5 EPA #4	35 2	3.34	2 07	1.58	D 59	2.43	0.8	4 01	0.994032193
93	6/11/02	EPA	S1054 B-8.5 EPA #5	35.7	5 35	26	1 33	0.72	1.68	0.94	3 01	1 184060809
94	6/11/02	EPA	S1055 A-B/2-6 EPA #1	25 8	1.58	1 88	2.24	0.56	3.25	0.73	5.49	0.920054346
95	6/11/02	EPA	S1056 A-B/2-6 EPA #2	26 9	2 11	2 12	18	06	3 17	081	4 97	1 008017857
96	6/11/02	EPA	S1057 A-B/2-6 EPA #3	28 3	2.53	2.28	3.44	0 65	2 69	0.87	6 13	1.086001842
97	6/11/02	EPA	S1058 A-B/2-6 EPA #4	27.1	-0.79	2 12	2.11	0 64	3 26	0.84	5 37	1 056030303
98	6/11/02	EPA	S1059 A-B/2-6 EPA #5	25 3	2.73	2.53	1 74	0.74	2.75	0 98	4 49	1 212105606

Average Total Radium (Th-232+Ra-226) Concentration for B-8.5=

.398 pCt/g

Average Total Radium (Th-232+Ra-226) Concentration for A-B/2-6=

5.29 pCifg Q = 0.61